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EXPLANATORY.

This Volume is printed in the Divisions enumerated on p. iv.

The pagination of each Division is separate, and is given at the left-hand top corner of the pages. The number and name of the Division is given as a heading on each left-hand page. The Registration Numbers when of importance are given at the right-hand top corner of the right-hand pages. The date 1919 corresponding to the bulk of the literature indexed is given at the right-hand top corner of the left-hand page.

In the Subject Index of each Division authors are quoted by name only. The full references will be found in the Title Section of the Division.

The Literature indexed is mainly that of 1919 but includes entries for earlier years that have been received too late for inclusion in previous volumes.

On account of the international situation, the Royal Society of London found itself unable to undertake at present any financial responsibility for any volumes of the International Catalogue subsequent to those of the Fourteenth Annual Issue.

Under these circumstances the Zoological Society of London arranged to undertake the issue of the present volume, which is the fifty-sixth of the Zoological Record, and would have been N. Zoology of the Nineteenth Annual Issue of the International Catalogue. Its preparation has been conducted as closely as possible on the model of the previous volumes prepared jointly by the International Catalogue and the Zoological Society.

It can now be purchased from the Zoological Society of London at the price of £2, either in the binding of the Zoological Record or in series with the International Catalogue.

Volume 57, dealing with the Literature of 1920, is in preparation.

An explanatory circular regarding issues subsequent to 1920 will shortly be issued to subscribers.

CONTENTS.

I. COMPREHENSIVE AND GENERAL ZOOLOGY.

II. PROTOZOA.

III. PORIFERA OR SPONGIAE.

IV. COELENTERATA.

V. ECHINODERMATA.

VI. VERMIDEA: including GEPHYREA AND PTEROBRANCHIATA.

VII. BRACHIOPODA AND BRYOZOA OR POLYZOA.

VIII. MOLLUSCA.

IX. ARTHROPODA (GENERAL).

X. CRUSTACEA.

XI. ARACHNIDA AND MYRIOPODA; including also GIGANTOSTRACA, EURYPTERIDA, PROTOTRACHEATA.

XII. INSECTA.

XIII. PROCHORDATA = TUNICATA, CEPHALOCHORDATA, ENTEROPNEUSTA.

XIV. VERTEBRATA (GENERAL).

XV. PISCES.

XVI. REPTILIA AND BATRACHIA.

XVII. AVES.

XVIII. MAMMALIA.

ALPHABETICAL INDEX OF NEW NAMES OF GENERA AND SUBGENERA.

I. COMPREHENSIVE ZOOLOGY

BY

D. SHARP

This section includes works that deal with more than one branch of Zoology, or that are of general interest to Zoologists. It is, therefore, not complete in itself as regards any one subject included in it. The special records complete each subject. A few memoirs included in the special records are repeated in this division.

CONTENTS

PAGE

I. TITLES 4

II. SUBJECT-INDEX :—

Hyperzoology :—

Philosophical=0000 12

Historical=0010 :

Biography, Obituary notices 12

Reports=0020 (vacant)

General Treatises, Text-books=0030 12

Bibliography=0032 12

Addresses, Lectures, &c.=0040 (vacant)

Pedagogy=0050 (vacant)

Institutions, Museums, Economic=0060 12

Nomenclature=0070 12

Methods, Technique=0090 12

Morphology=0207— PAGE

General, Miscellaneous 12
Nervous System 12
Blood 12

Physiology=0211—

Cytological. Protoplasm and cell 12
Sex 12
Metabolic (vacant)
Function 12
Colour 12
Environment, Adaptation 12
Vitality, Senescence, Death (vacant)
Chemical 12

Development=0215—

General 13
Ovum, oogenesis (vacant)
Spermatozoon, spermatogenesis (vacant)
Fertilization 13
Parthenogenesis 13
Embryology. Metamorphosis (vacant)
Regeneration 13

Ethology=0219—

General 13
Phenology 13
Migration 13
Food-habits (vacant)
Parental (vacant)
Sexual (vacant)
Social 13
Luminosity 13
Parasitism 13
Voice (vacant)
Habitat, incl. Speleology (vacant)
Oceanic, Plankton general 13
Psychology, Tropisms 13

Aetiology and Variation=0223—

General 13
Variation, Mutation.. 13
Teratology (vacant)
Hybrids (vacant)
Telegony 13
Heredity 13
Evolution. Origin of species 13
Phylogeny (vacant)

PAGE

Geography=0227—
General 13
Faunae:—
Ocean 13
Europe and Mediterranean 13
Asia, Malay Archipelago 14
Africa 14
North America 14
South America, etc. 14
Australia 14
Arctic 14

Taxonomy (or Systematic)=0231 14

I.—TITLES.

Abel, O. Die Stämme der Wirbelthiere. Berlin & Leipzig, de Gruyter 1919 (914 pp.) 669 figs. Review, Nature **106** p. 274. **1**

Adami, J. G. Medical contributions to the study of evolution. London (Duckworth & Co.) 1918 (xviii + 372). **2**

Adams, C. C. Migration as a factor in Evolution: its ecological Dynamics, ii. Amer. Nat. **53** 1919 (55–78). **3**

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Herdman, W. A. An address on some periodic changes in Nature. Proc. Liverpool Biol. Soc. Liverpool **33** 1919 (39–50). **75**

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Kerr, J. G. *vide* Bower, Kerr and Agar.

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Kukenthal, W. Die Bedeutung der Verbreitung mariner Bodentiere für die Paläogeographie. S.B. Ges. naturf. Fr. Berlin **1919** 1919 (208–228). **94**

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Lankester, *Sir* E. R. The foundation of biological sciences. Nature London **104** 1919 (198–201). **98**

Latzin, P. H. Die Rolle der Ausgleichsprinzipe in der Theorie des Lebens. Biol. Zentralbl. Leipzig **39** 1919 (318–325). **99**

Lebedinsky, N. G. Geschlechtsdimorphismus und sexualselection Verh. naturf. Ges. Basel **30** 1919 (273–280) **100**

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Lohmann, H. Neue Untersuchungen über die Verteilung des Planktons im Ozean. S. B. Ges. naturf. Fr. Berlin **1916** 1916 (73–126) Taf. i–iii. **105**

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Mansuy, H. Paléontologie de l'Annam et du Tonkin. Mémoires du service géologique de l'Indo-Chine Hanoï **2** fasc. 3 1913 (49) fig. **111**

Mansuy, H. Contribution à l'étude des faunes paléozoïques et triasiques du Tonkin. Mémoires du service géologique de l'Indo-Chine Hanoï **2** fasc. 5 1913 (5–29) fig. **112**

Mansuy, H. Faune du Carboniférien inférieur du Tran-Ninh. Mémoires du service géologique de l'Indo-Chine Hanoï **2** fasc. 5 1913 (30–33) fig. **113**

Mansuy, H. Description d'espèces nouvelles des terrains paléozoïques et triasiques du Tonkin. Mémoires du service géologique de l'Indo-Chine Hanoï **3** fasc. 2 1914 (15–24) fig. **114**

Mansuy, H. Contribution à la paléontologie du Laos. Mémoires du service géologique de l'Indo-Chine Hanoï **3** fasc. 2 1914 (27–34) fig. **115**

Mansuy, H. Gisements liasiques des schistes de Trian (Cochinchine). Mémoires du service géologique de l'Indo-Chine Hanoï **3** fasc. 2 1914 (37–39) fig. **116**

Mansuy, H. Nouvelle contribution à la paléontologie du Yannan. Mémoires du service géologique de l'Indo-Chine Hanoï **3** fasc. 2 1914 (1–12) fig. **117**

Mansuy, H. Étude des faunes paléozoïques et mésozoïques des feuilles de Thu-nho-quan et de Sontay (Tonkin). Mémoires du service géologique de l'Indo-Chine Hanoï **3** fasc. 2 1914 (43–85) fig. **118**

Mansuy, H. Faunes des calcaires à Productus de l'Indo-Chine. Mémoires du service géologique de l'Indo-Chine Hanoï **2** fasc. 4 1913 (135) fig. **3** fasc. 3 1914 (59) fig. **119**

Mansuy, H. Faunes cambriennes du Haut-Tonkin. Mémoires du service géologique de l'Indo-Chine Hanoï **4** fasc. 2 1915 (35) fig. **120**

Mansuy, H. Contribution à l'étude des faunes de l'Ordovicien et du Gothlandien du Tonkin. Mémoires du service géologique de l'Indo-Chine Hanoï **4** fasc. 3 1915 (22) fig. **121**

Marchal, P. Les sciences biologiques appliquées à l'agriculture et la lutte contre les ennemis des plantes aux Etats-Unis. Annales du service des épiphyties Paris **3** 1916 (31–382) 155 fig. [paru également à part]. **122**

Meves, F. Die Plastosomentheorie der Vererbung. Eine Antwort auf verschiedene Einwände. Arch. mikr. Anat. Bonn **92** 2 (41–136). **123**

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Molo. La selezione per attitudine. Agricolt. Ticinese Lugano **41** 1909 No. 24. **126**

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II.—SUBJECT INDEX.

The author's name and the number refer to Titles, where the full reference will be found.

HYPERZOOLOGY.

Philosophical. 0000

Jourdy, 90; Latzin, 99; Petersen, 136; Poche, 139.

History, Biography. 0010

History.

Bourne, 21; Evermann, 48; Horvath, Pauli Kitaibel, **81; Howard, 83; Kohlbrugge, 93; Lankester, 98; Locy, 104; Norton, 131; Stitz, 171; True,** history of the National academy of sciences, **181.**

Biography.

Anon., Ernest Haeckel, **11; Collin,** Wilhelm Weltner, **32; Forel,** Richard Semon, **54; Heinroth,** Dr. August Brauer, **72; Keith,** Gustav Magnus Retzius, **92; Lohmann,** Ernst Vanhoffen, **106; Stebbing,** A. M. Norman, **170; Taylor,** William Denison Roebuck, **174; Theinemann,** O. Zacharias, **177.**

Bibliography. 0032

Sharp, 165.

General Works, Essays, Textbooks. 0040

Abel, 1; Allen, 7; Anon., 10 Chapman, 26; Dürken, 45; Hudson, 85; O'Donoghue, 132; †Woods, Palæontology, **191.**

Pedagogy. 0050

MacLeod, 110.

Economics, Museums, Institutions, 0060

Economics.

Baker, freshwater farming, **15; Dendy, 38; Marchal,** la lutte contre les ennemis des plantes aux Etats-Unis, **122; Ravn,** &c., **150; Ritchie, 157; Wilhelmi, 188.**

Museums, Institutions.

Falz-Fein, 50; Harmer, 69; Thienemann, Plön Station, **176;**

Nomenclature. 0070

Apstein, 13; Baker, nomenclature and subspecies, **14; Heikertinger, 71.**

Technique, Methods. 0090

Jullien, 91; Lund, measuring carbon dioxide, **107; Newth, 130; Raunkiaer, 149; Salkind,** mode nouveau d'inclusion, **161; Wilhelmi, 187; Wundsch, 192.**

MORPHOLOGY. 0207

General.

Günther, spiral symmetry, **64.**

Nervous System.

Agduhr, 4; Detwiller, transplantation, **39; Droogleever Fortuyn, 42; Dubois, 43; Parker, 134; Trigt, 180.**

Blood.

Goodrich, 61.

PHYSIOLOGY. 0211

Cytological.

Alexeieff, 5; Doncaster, 40; Duesberg, 46; Gaudissart, 60; Gräper, 62; Harvey, binucleate cells, **70; Herrera, 79; Spek, 169.**

Sex.

Bower, Kerr and **Agar, 22; Lebedinsky, 100; Morgan, 128; Sørensen, 167.**

Function.

Frisch, Senses, **57; Jordan,** stages of development of function of nervous system, **89; Lang,** hearing, **95; Willey,** respiration, **189.**

Colour.

Przibram, 143; Przibram and **Brecher, 144; Przibram** and **Dembowski, 145; Thayer, 175.**

Environment, Adaptation.

Allee, hard winter, **6; Driesch,** adaptation, **41.**

Chemical.

Buhigas, 23; de Buen, 36, Clementi, 30; Collett, resistance of cilia to agents, **31.**

DEVELOPMENT. 0215

General.

Gutherz, germ-cells, **66**; **Herlant**, variations de volume du noyau de l'œuf activé, **77**; **Lillie** and **Johnston**, nature of growth and heredity, **102**; **Riddle**, twins, **156**; **Spek**, **168**.

Fertilization.

Duesberg, **46**; **Lillie**, **101**.

Parthenogenesis.

Herlant, artificial, **78**; **Lankester**, terminology, **97**.

Regeneration.

Bonnefon, **19**; **Przibram**, **142**.

ETHOLOGY. 0219

General and Miscellaneous.

Classen, biology, Caspian and Black Sea, **29**; **Jespersen**, Sargasso Sea, **88**; **Thomson**, **179**; **Wollman**, La vie aseptique, **190**.

Phenology.

Herdman, **75**.

Migration.

Adams, **3**; **Fraser**, **56**; **Stubbs**, **172**.

Social.

Portier, **140**, **141**.

Luminosity.

Dubois, **44**.

Parasitism.

Galippe, **58**.

Plankton (General).

Helfer, **73**; **Lohmann**, **105**; **Naumann**, **129**; **Redeke**, **152**; **Schaedel**, **162**; **Wilhelmi**, **186**.

Psychology. Tropisms.

Henning, **74**; **Raabe**, **146**; **Rabaud**, immobilisation réflexe, **147**, **148**.

VARIATION AND ÆTIOLOGY. 0223

General.

Jacobs, **86**.

Variation.

Lobo, **103**.

Telegony.

Ewart, **49**.

Heredity.

Bateson, **17**; **Bower**, **Kerr** and **Agar**, **22**; **Castle**, **25**; **Delage**, **37**; **East** and **Jones**, **47**; **Fenyes**, **52**; **Fisher**, **53**; **Haldane**, **67**; **Houwink**, **82**; **Lillie** and **Johnston**, nature of growth and heredity, **102**; **Meves**, plastosome theory, **123**; **Morgan**, **127**; **Punnett**, **145**; **Roberts**, **158**; **Schmidt**, **163**; **Thomson**, **178**.

Evolution. Origin of Species.

Adami, **2**; **Adams**, **3**; **Boulenger**, **20**; **Conklin**, **33**; **Danforth**, **35**; **Fantham**, **51**; **Garstang**, **59**; **Guenther**, **65**; **Kukenthal**, **94**; †**Lang**, **96**; **Macfarlane**, **109**; **Molo**, **125**, **126**; **Petronievics**, **137**; **Roberts**, pathological states, **159**; **Sumner**, **173**.

GEOGRAPHY. 0227

General.

Kukenthal, **94**; **Lydekker**, **108**.

Ocean.

Classen, Caspian and the Black Sea, **29**; **Jespersen**, Sargasso Sea, **88**; **Reibisch**, North sea and Baltic, **155**; **Schmidt**, Atlantic, **164**.

Europe.

Germany. *dc*

Plümecke, **138**; **Vanhöffen**, **183**; **Zschokke**, Rhine and distribution, **194**.

Holland. *dd*

Peeters, **135**; **Redeke**, **153**, **154**; **Weber**, **185**.

British Islands. *de*

Butterfield, 24; Chumley, Clyde, **27; Forrest, 55; Herdman,** Isle-of-man Plankton, **76; St. John, 160.**

Switzerland. *di*

Heascher, 80; Yung, 193.

Hungary. *dk*

Horváth, Hungary, **81.**

Asia. *e*

Annandale, 9; Anon., 12; Gravely, 63; Mansuy, Paléontologie de l'Annam et du Tonkin, **111-121.**

Africa and Madagascar. *f*

Osborn, 133; Voeltzkow, 184.

North America. *g*

Andrews, 8; †Clark, 28; Hall and Grinnell, 68; †Smith, 166; †Udden, The deep boring at Spur, **182.**

South America. *h*

Beebe, 18; Hudson, 84; Miller, 124.

Australia. *i*

Basedow, 16; Dakin, Abrolhos islands, **34.**

Arctic. *k*

†Jensen, Greenland, **87.**

TAXONOMY. **0231**

Willey, 189.

II. PROTOZOA

ARRANGED BY

H. M. WOODCOCK, D.Sc.

CONTENTS.

	PAGE
I. Titles	4
II. Subject Index :—	
Comprehensive and General = 0403 :—	
Nomenclature	15
Bibliography..	15
Treatises, Collected Works	15
Addresses, Reviews..	15
Economics	15
Protozoa and disease	15
Amoebosis	15
Coccidiosis	15
Malaria	15
Myxosporidiosis	15
Trypanosomosis	15
Leishmaniosis	15
Flagellosis	15
Balantidiosis	15
Miscellaneous	15
Experimental infection	15
Cultivation	15
Technique..	15
Structure = 0407 :—	
General Anatomy, Morphology	16
(a) of Sarcodina	16
(b) of Sporozoa	16
(c) of Mastigophora	16
(d) of Ciliophora	16

PAGE

Minute Structure; Special Anatomy :—

(a) Shell, envelope, etc. 16
(b) Organellae of locomotion 16
(c) Nucleus and cytoplasm 16
(d) Nuclear division-mechanisms 16

Physiology = 0411 :—

General 16
Nutrition, excretion.. 16
Movement 16
Sense Organs 16
Growth 16
Depression-periods; recuperation 16
Sexuality 16
Vitality 16
Immortality 16
Environmental effects; response to stimuli 16
Effects of reagents 16
Immunity 16

Development and reproduction = 0415 :—

(a) Mycetozoa 16
(b) Sarcodina 16
(c) Sporozoa 17
(d) Mastigophora 17
(e) Ciliophora 17

Ethology = 0419 :—

Biology, habits 17
Plankton 17
Commensalism 17
Parasitism 17
(a) Natural Transmission 17
(b) Carriers 17
(c) Hosts 17
General 17
Nemertinea 17
Chaetopoda 17
Insecta 17
Arachnida 17
Mollusca 17
Pisces 17
Amphibia 17
Reptilia.. 17
Aves 18
Mammalia 18

Variation, Phylogeny = 0423.. 18

PAGE

Distribution, Geography = 0427 :—

Geographical.. 18
Europe 18
Asia 18
Africa 18
America 18
Australasia 18

Geological :—
Tertiary 18
Secondary 18
Primary 18

III. Systematic = 0431 :—

Protozoa, general 18

1. Mycetozoa 18

2. Sarcodina 18
(a) Amoebaea 18
(b) Foraminifera 19
(c) Heliozoa (vacant).
(d) Radiolaria (vacant).

3. Sporozoa 21
(a) Gregarinidea 21
(b) Coccidiidea 21
(c) Haemosporidia 22
(d) Myxosporidia.. 22
(e) Actinomyxidia (vacant).
(f) Sarcosporidia.. 23
(g) Haplosporidia 23
Incertae sedis.. 23

4. Mastigophora 23
(a) Flagellata 23
(b) Silicoflagellata (vacant).
(c) Dinoflagellata.. 25
(d) Rhynchoflagellata (vacant).

5. Ciliophora 25
(a) Ciliata.. 25
(b) Suctoria 26

I.—TITLES.

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II.—SUBJECT INDEX.

COMPREHENSIVE AND GENERAL. 0403

Nomenclature.

Brug, 29.

Bibliography.

Row, 215a.

Treatises, Collected Works.

Barthélemy, 9; Castellani & Chalmers, 38; Chandler, 41; Dobell, 81; Kemna, 137.

Addresses, Reviews.

Hartmann, 117; Montgomery, 181.

Economics.

PROTOZOA IN RELATION TO DISEASE.

(*a*) *Amoebosis.* (See also under "Carriers," 0419).

Bahr, 7; Boulenger, 19; Haig, 113; O'Connor, 185; Rousseau, 215; Smith, 234; Watt, 252.

(b) *Coccidiosis.*

Haughwout, 119; San Lorenzo, 217; Velu, 248.

(c) *Malaria.*

Brug, 27; Delancë, 76; James, 132; Sheather, 230.

(d) *Myxosporidiosis.*

Debaisieux, 66.

(e) *Trypanosomosis.*

Degreef, 72; Delancë, 75; Greggio, 108; Laveran, 144; Léger & Vienne, 156; Newham, 184; Phipps, 197; Rodhain, 210; v. Saceghem, 216; Torres & Villaça, 244.

(f) *Leishmaniosis.*

Bonne, 17 & 18; Laveran et Havet, 150.

(g) *Flagellosis.*

Escomel, 93; Haughwout, 120; Léger, 154; Powell, 205; Stauffacher, 238.

(h) *Balantidiosis.*

Mason, 168.

Miscellaneous.

[Transmission—*vide* 0419.]

Experimental infection, etc.

Blacklock & Carter, 14; Chatton & Blanc, 46; Knowles, 139; Laveran, 145; Laveran & Franchini, 147-149; Lignières, 161 & 162; Swellengrebel, 239; Velu, 249.

Cultivation.

Boyd, 22; Chatton, 45; Doflein, 82; Laveran & Franchini, 146 & 147; Ponselle, 202; Pringsheim, 206; Taylor, 241.

Technique.

Agulhon & Chavannes, 2; Arnaud, 5; Brug, 26 & 28; Croveri, 54; Hoefer, 127; Lesieur & Jacquet, 158; Ponselle, 203; Vaillant, 246.

STRUCTURE. 0407

Morphology and general Anatomy.

(a) of SARCODINA.

Brug, 25, 30; Carter, 36; Douvillé, 86, 88; Moreau, 182; Schaeffer, 219.

(b) of SPOROZOA.

Brumpt, 31; Dobell, 80; Lignières, 160; Macfie, 166; Roubaud, 214; Sheather, 230.

(c) of MASTIGOPHORA.

Bonne, 17; Chalmers & Pekkola, 39; Chatton, 45; Cutler, 61; Hughes, 130; Laveran & Franchini, 146; Macfie, 166; Pascher, 188; Schaeffer, 220.

(d) of CILIOPHORA.

Bresslau, 23; Chatton & Férard, 47; Cunha, 55; Penard, 195.

Minute Structure; special Anatomy.

(a) *Shell, envelope, etc.*

Deprat, 77; Kemna, 136; Lapparent, 142; Petersen, 196.

(b) *Organellae of attachment, locomotion.*

Galati-Mosella & La Monica, 101; Petersen, 196.

(c) *Nucleus and cytoplasm.*

Brug, 25 & 28; Cragg, 53; Dawson, 65; Dehorne, 73; Galati-Mosella & La Monica, 101; Gard, 102; Martin, 167; Roskine, 212; Rothert, 213; Schaeffer, 219; Watts, 253.

(d) *Nuclear division and division-mechanisms.*

Bastin, 11; Calkins, 33; Erdmann & Woodruff, 92; Greiner, 109; Kofoid & Swezy, 140; Zulueta, 264.

PHYSIOLOGY. 0411

General.

Artari 6; Dahlgren, 63.

Nutrition, Metabolism.

Chambers, 40; Cragg, 53; Doflein, 82; Flather, 97; Haughwout, & Leon, 122; Hyman, 131; Kepner & Edwards, 138; Pringsheim, 206; Schaeffer, 220; Watt, 252; Yorke & Macfie, 261.

Movement.

Pascher, 188; Schaeffer, 220.

Sense Organs.

Pütter, 207.

Growth.

Chambers, 40; Hilton, 125.

Depression-Periods; Recuperation.

Calkins, 34; Erdmann & Woodruff, 92; Hertwig, 124; Jollos, 134; Woodruff, 256; Young, 262.

Sexuality.

Schuurmans-Stekhoven, 224.

Vitality.

Calkins, 34.

Immortality.

Jollos, 134.

Environmental effects; Response to stimuli.

Bourcart & Laugier, 20; Flather, 96; Hegner, 123; Juday, 135; Kepner & Edwards, 138; Mast, 169-171; Pack, 186; Schaedel, 218; Sergent, 225; Skupienski, 232.

Effects of Chemicals, Reagents, etc.

Collett, 50; Horst, 128 & 129; Hyman, 131; Koltzoff, 141; Mast, 169.

Immunity.

Lignières, 162.

REPRODUCTION AND LIFE-CYCLE. 0415

(a) MYCETOZOA.

Hilton, 125.

(b) SARCODINA.

Amoebae.

Brug, 25, 28; Cutler, 60; Cragg, 53.

(c) SPOROZOA.

Gregarines.

Bastin, 11; Bresslau & Buschkiel, 24.

Coccidia.

Debaisieux, 68; Foulon, 98; Greiner, 109; Léger & Hesse, 153; Phisalix, 198 & 199.

Haemosporidia.

Knowles, 139.

Myxosporidia.

Bresslau & Buschkiel, 24; Debaisieux, 69 & 70; Debaisieux & Gastaldi, 71; Georgévitch, 103; Mavor, 177; Schuberg & Rodriguez, 223; Schuurmans-Stekhoven, 224; Ward, 251.

Haplosporidia.

Debaisieux, 67.

(d) MASTIGOPHORA.

Flagellates.

Boyd, 22; Cutler, 61; Enriques, 91; França, 99; Kofoid & Swezy, 140; Zulueta, 264.

(e) CILIOPHORA.

Ciliates.

Bresslau, 23; Calkins, 33; Erdmann & Woodruff, 92; Galati-Mosella & La Monica, 101; Hertwig, 124; Jollos, 134; Penard, 195; Young, 262; Zulueta, 263.

ETHOLOGY. 0419

Bionomics; behaviour, habits.

Bourquin-Lindt, 21; Carpenter, 35; Carter, 36; Dawson, 65; Gard, 102; Gillies, 105; Juday, 135; Matthews, 173; Ponselle, 201; Schaedel, 218; Schröder, 222; Sergent, 225 & 226; Skupienski, 232; Wenrich, 254; Yorke & Macfie, 261.

Plancton.

Meunier, 178 & 179; Naumann, 183; Schröder, 222; Virieux, 250.

Commensalism.

Cushman, 57; Lichtenstein, 159; Moreau, 182.

Parasitism.

(a) NATURAL TRANSMISSION; INFECTIVITY.

Acton, 1; Barber, 8; Bassett-Smith, 10; Brumpt, 31 & 32; Duke, 90; França, 99; Gubb, 110; Matthews & Smith, 174; Parrott, 187; Patton, 193; Phipps, 197; Tejera, 243; Woodcock, 255.

Hereditary Infection.

Sergent & Lhéritier, 228.

(b) CARRIERS.

Baylis, 12; Boulenger, 19; Gunn & Savage, 112; Haughwout, 121; MacAdam, 165; Matthews, 172; Matthews & Smith, 174-176; Turner & Taylor, 245; Yorke, 260.

(c) HOSTS.

General

Haughwout, 120; Johnston, 133.

Nemertinea.

Debaisieux, 67.

Chaetopoda.

Friend, 100.

Insecta.

Blacklock & Carter, 14; Bresslau & Buschkiel, 24; Debaisieux, 69 & 70; França, 99; Schuberg & Rodriguez, 223.

Arachnida.

Brumpt, 31 & 32.

Mollusca.

Debaisieux, 68.

Pisces.

Fantham, 95; Léger & Hesse, 153; Schuurmans-Stekhoven, 224; Ward, 251.

Amphibia.

Granata, 107.

Reptilia.

Commes, 51; Doré, 84; Hoare, 126; Léger, 155; Macfie, 166; Phisalix, 198 & 199.

Aves.

Bentham, 13; Fantham, 95.

Mammalia.

Bonne, 18; Chalmers & Pekkola, 39; Chatterjee, 44; Chattton & Pérard, 47; Cunha, 55; Darling, 64; Dobell, 80; Knowles, 139; Léger & Vienne, 156; Porter, 204; Roubaud, 214; Sheather, 230.

VARIATION, PHYLOGENY. 0423

Evolution.

Douvillé, 85.

Inheritance, Variation.

Gonder, 106; Hegner, 123; Laveran, 143.

Phylogeny.

Deprat, 77; Douvillé, 85; Haughwout, 118.

DISTRIBUTION (GEOGRAPHY). 0427

[See also under "Parasitism," 0419.]

Geographical.

Europe.

Bourquin-Lindt, 21; Chumley, 49; Conrad, 52; Dixon, 79; Dons, 83; Gunn, 111; Pascher & Lemmermann, 190; Pavillard, 194; Redeke, 208; Schlenker, 221.

Asia.

Ghosh, 104; Hamill, 115; Ledingham, 151; Low, 163; Sprawson, 237; Yakimoff & Schokhor, 259.

Africa.

Blanc, 15; Delanoë, 74; Newham, 184.

Australasia.

Cushman, 58 & 59; Gillies, 105; Playfair, 200; Vaughan, 247.

America.

Escomel, 94; Pack, 186; Spencer, 236; Vaughan, 247.

Geological.

Tertiary.

Arabu, 3; Checchia-Rispoli, 48; Douvillé, 87 & 89; Halkyard, 114; Yabe, 258.

Secondary.

Blanchet, 16; Lapparent, 142.

Primary.

Chapman, 43; Deprat, 77 & 78.

III.—SYSTEMATIC.

PROTOZOA, GENERAL 0431

Protozoa, f. water, Iowa, notes on SPENCER Proc. Iowa Acad. **24** pp. 335–351 figs. 53–55.

Protozoa, from plancton, Jura Lakes, notes on; VIRIEUX Ann. Biol. lacustre **8** pp. 73–86 101–105.

1.—MYCETOZOA.

Diderma simplex **var. n.** *echinulatum*, p. 450, *D. montanum* **var. n.** *roseum*, p. 450; MEYLAN Bull. Soc. Vaud. Sci. nat. **52.**

Hemitrichia obrussea **sp. n.** Jura, diagnosed; MEYLAN T.c. p. 449.

Lamproderma gulielmae **sp. n.** Val de Travers, diagnosed; MEYLAN T.c. p. 449.

2. SARCODINA (= GYMNOMYXA).

Rhizopoda and Heliozoa, British fresh-water, described; CASH & WAILES London (Ray Soc.) vol. **4** 130 pp. pls. lviii-lxiii.

(a) Amœbaea (Reticulosa + Lobosa).

Amoeba of *limax*-type ingesting red blood cells; YORKE & MACFIE Ann. trop. Med. Parasitol. **13** pp. 133–135 1 text-fig.

Amoeba bigemma **sp. n.**, described; SCHAEFFER Trans. Amer. Microsc. Soc. **37** 80 pl. vii.—*A. proteus*, comparison of morphology and bionomics of different forms question of specific and varietal distinctions; CARTER Proc. R. Phys.

Soc. **20** pp. 193–210 pl. xix.—*A. sphaeronucleolus* commensal with a Lichen, morphology; MOREAU Ann. Inst. Pasteur **30** pp. 677–680 21 text-figs.

Arcella excavata **sp. n.**, N. America; CUNNINGHAM Trans. Amer. Microsc. Soc. **38** p. 242 2 text-figs.—*A. vulgaris* **var. n.** *hemisphaerica* p. 13, pl. lix fig. 5 and text-fig. 161, *A. verrucosa* **var. n.** *papyracea* p. 10, pl. lviii fig. 3, diagnosed; CASH & WAILES Brit. f.w. Rhizopoda vol. **4**.

Endolimax williamsi (Prow.) (= *Entamoeba w.* Prow. + Iodine-cysts), morphology and stages in life-cycle: BRUG Ind. J. Med. Res. **6** pp. 386–392 1 pl.

Entamoeba, peculiar form of, ciliated (?), from liver-abscess, note; WATTS Brit. Med. J. **1919** i p. 378.—*E. coli*, contribution to knowledge of; CRAGG Ind. J. Med. Res. **6** pp. 462–484 pls. i–iv.—*E. c.*, inclusions in; O'CONNOR Parasitol **11** p. 246 pl. xi figs. 4–10.—*E. c.*, size of cysts; MATTHEWS Ann. trop. Med. Parasitol **12** pp. 259–272.—*E. c.* and *E. histolytica* compared; HAIG Lancet **1919** ii pp. 823–825 6 text-figs.—*E. cuniculi* **sp. n.**, Java; BRUG Geneesk. Tydschr. NedIndie **58** pp. 811–812.—*E. histolytica* from liver-abscess, formation and function of crystalloids; DEHORNE Arch. Zool. exp. **58** N. et R. pp. 11–18 4 text-figs.—*E. h.*, 2 distinct races only; SMITH Ann. trop. Med. Parasitol. **13** pp. 1–16.—*E. h.*, notes on biology, life-cycle; CUTLER Parasitol **11** pp. 127–147 pl. vii.—*E. h.*, mode of injesting red blood corpuseles, diagnosis of active forms; WATT J. trop. Med. **22** pp. 45 & 46.—*E. tenuis* Kuenen and Swellengr. 1917 (syn. *minutissima* Brug) [this is really syn. *E. minuta* Woodcock and Penfold], note on, p. 628; *E. cuniculi* Brug, note, p. 631; *E. muris* of rat, and form very similar to *histolytica* in rats, compared, p. 635; BRUG Bull. Soc. Path. exot. **12**.

Iodamoeba **gen. n.** proposed for the Amoeba producing I-cysts; DOBELL London (Bale, Sons & Daniellson) 1919 p. 110

Mastigamoebula **gen. n.** *africana* **sp. n.**; FANTHAM S. Afric. J. Sci. **16** p. 186.

Pelomyxa lentissima p. 89, pl. viii figs. 6 & 7, *schiedti* p. 92 figs. 8, 10, **spp. n.**, diagnoses; SCHAEFFER Trans. Amer. Microsc Soc. **37**

(b) Foraminifera.

Foraminifera, Recent, off New Zealand, with new forms, notes; CUSHMAN Proc. U.S. Nat. Mus. **56** pp. 593–640 pls. lxxiv–lxxv.

†Foraminifera, Eocene, Aquitaine and Pyrénees, with new forms, notes; DOUVILLÉ Mem. Carte géol. det. France **1919** pp. 1–84 pls. i-vii.

†Foraminifera, Blue Marl, Biarritz, with new species, diagnosed; HALKYARD Mem. Lit. Phil. Soc. Manchester **62** No. 2 145 pp. 8 pls.

Ammodiscus mestayeri **sp. n.** New Zealand; CUSHMAN Proc. U.S. Nat. Mus. **56** p. 597 pl. lxxiv figs. 1 & 2.

†*Bolivina intermedia* **sp. n.** p. 52, pl. iii fig. 10; HALKYARD Mem. Lit. Phil. Soc. Manchester **62** No. 2.

†*Columella* **gen. n.** (*Lituolidae*) *carpenteriaeformis* **sp. n.**, diagnosed, Blue Marl, Biarritz; HALKYARD T.c. p. 28 pl. ii figs. 1–5

†*Cristellaria robusta* **sp. n.**; HALKYARD T.c. p. 90 pl. vi fig. 1.

†*Cyclosteginae* of D'Orbigny (*Orbitolites* and *Orbitoides*), comparison of morphology of these forms, relationships; DOUVILLÉ C. R. Acad. Sci. **169** pp. 1130–1135 17 text-figs.

†*Discorbina compressa* **sp. n.** p. 114, pl. vii fig. 3. *opercularis* (d'Orb.) **var. n.** *elegans* p. 113 fig. 2; HALKYARD Mem. Lit. Phil. Soc. Manchester **62** No. 2.

†*Doliolina major* **sp. n.** p. 23 pl. iii figs. 15–17; DEPRAT Mem. Serv. géol. Indochine **3** fasc. 1.—*D. aliciae* p. 43 pl. v figs. 11–14, *claudiae* p. 44 pl. iv figs. 5–9, *pseudolepida* p. 46 pl. v figs. 6–9, pl. vi fig. 4, **spp. n.**, Permo-Carboniferous, Indochina; DEPRAT *op. cit.* **1** fasc. 3.

†*Eulepidina roberti* **sp. n.**, note; DOUVILLÉ C. R. Soc. géol. **1917** p. 145.

†*Frondicularia arborescens* **sp. n.**; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2 p. 88 pl. v figs. 8, 9.

†*Fusulina tschengkianensis*, p. 20 pl. ix figs. 16, 17, *dussaulti* p. 20 pl. viii figs. 6–8, *globosa* p. 22 pl. vi figs. 5–10, pl. vii fig. 1, *margheritii* p. 25 pl. viii figs. 9, 10, pl. ix fig. 1, *mansuyi* p. 32 pl. viii figs. 11, 12, *lantenoisi* p. 33 pl. ix figs. 2–4, **spp. n.**, Permo-Carboniferous, China, etc.; DEPRAT Mem. Serv. géol. Indochine **1** fasc. 3.—*F. propinqua* p. 10 pl. i figs. 12, 13, *kozui* p. 11 pl. iii figs. 4–8, *lepida* p. 15 pl. ii fig. 5, **spp. n.**, *japonica* Gümb. **varr. n.** *akasakensis* p. 9 pl. iii figs. 10, 11, *constricta* p. 10, fig. 9; DEPRAT *op. cit.* **3** fasc. 1.

†*Fusulinidae*, Permo-Carboniferous, districts in China and Indochina, with new forms; DEPRAT Mém. Serv. géol. Indochine **1** fasc. iii pp. 1–77 pl. i–ix.

†*Gaudryina rugosa* d'Orb., **var. n.** *difformis*; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2 p. 42 pl. ii figs. 7–9.

Girvanella not regarded as a Foraminiferan; CHAPMAN Nature **103** p. 4.

†*Halkyardia* **gen. n.** Heron-Allen and Earland, for *Linderina ovata* Halky. and other forms; (in) HALKYARD Mem. Lit. Phil. Soc. Manchester **62** No. 2 p. 108.

†*Haplophragmium tumidum* **sp. n.**; HALKYARD T.C. p. 24 pl. i fig. 9.

Hyperamnina mestayeri **sp. n.** New Zealand; CUSHMAN Proc. U.S. Nat. Mus. **56** pl. 596 pl., lxxiv fig. 3.

Iridia convexa **sp. n.**, commensal on shell of *Cyclammina*, note; CUSHMAN Proc. U.S. Nat. Mus. **56** pp. 101 & 102 pl. xxv.

†*Lagena flexicollis* **sp.n.** p. 59, pl. iii fig. 11, *striato-punctata* (P. and J.) **var. n.** *caudata*, p. 59, fig. 12; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2.

†*Lepidocyclina* spp., from Tertiary Limestone, Cebu, notes; YABE Sci. Rep. Imp. Univ. Japan **5** pp. 37–51 pls. vi & vii.—*L.* (*Eulepidina*) *monstrosa* **sp. n.**, Tertiary Limestone, Cebu; YABE T.c. p. 42 pl. vi fig. 5A, pl. vii figs. 11, 12A, 13.

†*Linderina ovata*, p. 109 pl. vi figs. 10–12, *chapmani* p. 110 figs. 8, 9, **spp. n.**; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2.

†*Lingulinopsis acutimargo* **sp. n.**; HALKYARD T.c. p. 81 pl. v fig. 1.

†*Marginulina pyramidale* (Karr.) **var. n.** *globosa* p. 85 pl. v fig. 2; HALKYARD T.c.

†*Neoschwagerina multicircumvoluta* p. 50 pl. ii figs. 7–9, pl. iii fig. 1, *N.* (*Sumatrina*) *multiseptata* p. 53 pl. iii figs. 2–8, **spp. n.** *N.* (*S.*) *annae* **var. n.** *stricta* p. 57 pl. v fig. 2, *N. craticulifera* **varr. n.** *grandis*, pl. ii figs. 5, 6, *tenuis* fig. 3, p. 49, Permo-Carboniferous, Indo-China; DEPRAT Mem. Serv. Géol. Indochine **1** fasc. 3.—*N. craticulifera* **var. n.** *minoensis* p. 27 pl. vii figs. 9, 10; *N.* (*Sumatrina*) *longissima* **sp. n.** p. 36 pl. v fig. 1–6; Permo-Carboniferous Indo-China; DEPRAT Mem. Serv. Géol. Indochine **3** fasc. 1.

Nodosaria (*Dentalina*) *lorifera* **sp. n.** (really *Ellipsoidina l.*, H. E. and E.), p. 70, pl. iv. figs. 2. 3, *N.* (*D.*) *pauperata* **varr. n.** *bulbosa*, figs. 10, 11, *crassisepta* figs. 12, 13, p. 72; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2.

†*Nummulites exilis* **sp. n.**, Eocene; DOUVILLÉ C. R. Acad. Sci. **168** p. 654.—*N. perforatus*, note on; DOUVILLÉ C. R. Soc. Géol. 1917 p. 174.—*N. subatacicus* p. 41 pl. iii figs. 7 & 8, *pustulosus* p. 44 pl. ii figs. 1–4, *granifer* p. 45 pl. i figs. 39–41, pl. ii figs. 5–8, *exilis* p. 62 pl. i fig. 42, *subexilis* p. 65, pl. i figs. 43–45, **spp. n.**, Eocene, Aquitaine and Pyrenees, diagnosed; DOUVILLÉ Mem. Carte Géol. det. France **1919**.

Nummulitidae, evolution and classification; DOUVILLÉ C. R. Acad. Sci. **168** pp. 651–656.

†*Orbitolina*-type occurring in Upper Jurassic; BLANCHET Trav. Lab. Géol. Grenoble **11** p. 73.

†*Patellina conica* **sp. n.**; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2 p. 107 pl. vi fig. 7, pl. viii figs. 6, 7.

†*Pellatispira* Boussac from limestones, Japan, compared with *Assilina*; YABE J. Geol. Soc. Tokyo **26** No. 308 pp. 1–5.

†*Pentellina laevis*, pl. i fig. 1, *attenuata* pl. viii figs. 1 & 2, p. 15 **spp. n.**; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2.

†*Placopsilina intermedia* p. 26, pl. i fig. 8, *aggregata* p. 27, pl. viii figs. 3, 4, **spp. n.**; HALKYARD T.c.

†*Psammosphaera neminghensis* **sp. n.** Devonian, N.S. Wales; CHAPMAN Proc. Linn. Soc. N.S.W. **43** p. 387 figs. 1, 2, 10–12.

†*Pulvinulina acutimargo* **sp. n.** p. 120 pl. vii fig. 4, *karsteni* (Reuss) **var. n.** *parva* p. 121 fig. 5, *hauerii* (d'Orb.) **var. n.** *crassa* p. 125, fig. 6; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2.—*P. bensoni* **sp. n.** Devonian, N.S. Wales; CHAPMAN Proc. Linn. Soc. N.S.W. **43** p. 389 fig. 9.

Reophax advena **sp. n.** p. 599 pl. lxxv fig. 2, *R. spiculifera* Brady **var. n.** *pseudodistans* p. 598, fig. 1, New Zealand; CUSHMAN Proc. U.S. Nat. Mus. **56**.

†*R. plana* p. 21, pl. i figs. 4, 5, *polymorphinoides* p. 22, figs. 6, 7, **spp. n.**; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2.

†*Schwagerina douvillei* p. 38 pl. i figs. 4–6, *prisca* p. 41 pl. iv figs. 10–14, **spp. n.**, Permo-Carboniferous, Indo-China; DEPRAT Mem. Serv. Géol. Indochine **1** fasc. 3.

†*Siphogenerina sulcata* pl. vi fig. 3, *papillosa* fig. 4, p. 40, *hexagona* p. 41, fig. 5, **spp. n.**; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2.

†*Spirillina restis* **sp. n.** (syn. *selseyensis* H.A. and E.); HALKYARD T.c. p. 105 pl. vi fig. 6, pl. vii fig. 8.

Spiroloculina elegans **sp. n.**, Murray Island, diagnosed; CUSHMAN Pap. Dept. Mar. Biol. Carnegie Inst. **9** p. 290 pl. xcvi figs. 1, 2.

Technitella mestayeri **sp. n.** occurrence and diagnosis; CUSHMAN Proc. U.S. Nat. Mus. **56** p. 595 pl. lxxiv fig. 4.

†*Textularia biarritzensis* **sp. n.**; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2 p. 34 pl. ii fig. 6.

Tolypammina horrida **sp. n.**, New Zealand; CUSHMAN Proc. U.S. Nat. Mus. **56** p. 597 pl. lxxiv fig. 5.

Triloculina striolata p. 290 pl. xcvi fig. 3, *subgranulata* p. 290 fig. 4, **spp. n.**, Murray Island, diagnosed; CUSHMAN Pap. Dept. Mar. Biol. Carnegie Inst. **9**.

†*Tritaxia dehiscens*, p. 44 pl. iii fig. 8, *elongata* p. 45, fig. 9, **spp. n.**; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2.

†*Uvigerina tenuistriata* Reuss **var. n.** *debilis*; HALKYARD T.c. p. 100.

†*Vaginulina recta* Reuss, **var. n.** *parallela*; HALKYARD T.c. p. 82 pl. v figs. 5, 6.

†*Valvulina oblonga* **sp. n.** Devonian, N.S. Wales; CHAPMAN Proc. Linn. Soc. N.S.W. **43** p. 389 fig. 8.

†*Verneuilina recurvata* **sp. n.**, p. 43 pl. iii fig. 7; HALKYARD Manchester Mem. Lit. Phil. Soc. **62** No. 2.

†*Virgulina lineata* **sp. n.** p. 49, pl. viii fig. 5; HALKYARD T.c.

†*Yabeina* **subgen. n.** (of *Neoschwagerina*) *inouyei* **sp. n.** p. 30 pl. vi figs. 4–10, pl. vii figs. 1, 2; DEPRAT Mem. Serv. Géol. Indochine **3** fasc. 1.

(c) Heliozoa.

[Vacant.]

(d) Radiolaria.

[Vacant.]

3. SPOROZOA.

(a) Gregarinidea.

Caulleryella annulatae, p. 329 text-fig. 2, note, *pipientis* p. 331 text-fig. 3, **spp. n.**, stages of life-history described; BRESSLAU & BUSCHKIEL Biol. Centralbl. **39**.

Monocystis agilis Hesse, notes on life-cycle (isogamous conjugation); BASTIN Bull. Biol. France et Belg. **53** pp. 325–373 pls. v & vi.

Pleurocystis cuénoti Hesse, note on syzygies, comparison with *Nematocystis*; LEIGH-SHARPE Ann. Mag. Nat. Hist. Ser. 9 **3** pp. 256–262 3 text-figs.

Porospora nephropsis **sp. n.**; LÉGER & DUBOSCQ Ann. Univ. Grenoble **28** pp. 477–481.

(b) Coccidiidea.

Coccidia parasitic in Man, comparative account; DOBELL Parasitol. **11** pp. 147–197 pl. viii.

Adelea ovata, cytology of gamete-formation and fertilization; GREINER Biol. Centralbl. **38** pp. 522–529 8 text-figs.

Coccidium arloingi Marotel, of goat, notes on; VELU Bull. Soc. Path. exot. **12** pp. 298–301.—*C. crotali* **sp. n.**, occurrence and note on; PHISALIX Bull. Soc. Path. exot. **12** pp. 11–14 & 20, and Bull. Mus. **1919** pp. 74–76.—*C. oxyspora* **sp. n.**, from Man, cysts; DOBELL Parasitol. **11** p. 188 pl. viii fig. 3.

Goussia truttae **sp. n.**, from intestine of *Salmo fario*, notes on gametocytes and sporogony; LÉGER & HESSE C. R. Acad. Sci. **168** pp. 904–906.

Merocystis kathae Dakin, an *Aggregata*-like type, life-cycle described; FOULON La Cellule **30** pp. 119–150 3 pls.

Minchinia regarded as synonymous with *Haplosporidium* (*q.v.*); DEBAISIEUX C. R. Soc. biol. **82** p. 1401.

Pseudoklossia chitonis p. 1401, *patella* p. 1402 **spp. n.**, note on; DEBAISIEUX C. R. Soc. biol. **82**.

(c) Haemosporidia.

Haemogregarina bruneti **sp. n.**, from *Cinixis*, diagnosed; COMMES Bull. Soc. Path. exot. **12** pp. 15 & 16.—*H. inexpectata* **sp. n.**, a true Haemogregarine from Man, morphology and occurrence; ROUBAUD Bull. Soc. Path. exot. **12** pp. 76–79 10 text-figs.—*H. lygosomarum* **sp. n.**, occurrence and note on; DORÉ New Zealand Journ. Sci. Techn. **2** pp. 163 & 164 1 text-fig.—*H. salimbeni* **sp. n.**, from *Tupinambis*, diagnosed; LÉGER Bull. Soc. Path. exot. **12** p. 219.—*H. tigrinae* **sp. n.** from *Natrix tigrina*, morphology of different forms, effects on host-cell; HOARE Arch. russes Anat. Hist. **2** pp. 129–135 10 text-figs.

Leucocytozoon sp. (probably new) from *Carduelis spinus*, note on cell-habitat (regarded as being usually parasitic in erythroblasts); BENTHAM Proc. Univ. Durham Phil. Soc. **5** pp. 139–146 1 pl.

Malarial parasites, question of the unity of the benign and malignant tertian forms; ARMAND-DELILLE C. R. Acad. Sci. **168** pp. 419–421.—Malarial parasites, question of specificity or unity of the three types; SEYFARTH Centralbl. Bakt. Abth. 1 **82** Orig. pp. 564–570.

Microbabesia divergens in Niederländisch-Indien (Holländisch); SOHNS Ned. Ind. Blad. Diergen. **30** pp. 385–455 3 pls.

Piroplasma canis, transmission by *Dermacentor reticulatus*, morphology of different phases; BRUMPT Bull. Soc. Path. exot. **12** pp. 651–664 4 text-figs.

Plasmodium bubalis **sp. n.**, from Indian buffalo, described; SHEATHER Bull. Agric. Res. Inst. Pusa No. **90** 4 pp. 2 pls.—*P.* (*cf. carinii*) from *Tupinambis*, note on; LÉGER Bull. Soc. Path. exot. **12** p. 219.—*P. mesnili* Bouet from *Naja nigricollis*, note on, cytoplasmic fusion of two individuals in one corpuscle; MACFIE Ann. trop. Med. Parasitol. **13** pp. 25–29 pl. i figs. 5–24.—*P. semnopitheci* **sp. n.**, phases in life-cycle described; KNOWLES Ind. J. Med. Res. **7** pp. 197–199 pls. xvi–xix.

Proteosoma of birds, harmless to the Culicine transmitting host; SERGENT Bull. Soc. Path. exot. **12** pp. 601–603.—*P.*, non-relationship between gametes in the blood, and zygotes developed in the mosquito; SERGENT T.c. pp. 603–605.

(d) Myxosporidia (including Microsporidia).

Ceratomyxa acadiensis Mavor, full account of life-cycle; MAVOR Proc. Amer. Acad. **51** pp. 551–578 3 pls. and 3 text-figs.

Glugea danilewskyi and *mülleri*, L. Pfr., account of life-history; DEBAISIEUX La Cellule **30** pp. 151–184 2 pls.

Henneguya brachyura p. 57 text-fig. C., from *Notropis anogenus*, *H. salminicola* p. 59, figs. D–F, from *Oncorhynchus kisutch*, **spp.** n. diagnosed; WARD J. Parasitol. **6**

Myxobolus aureatus **sp. n.**, from *Notropis anogenus*, description of cysts and spores; WARD T.c. pp. 49–57 pl. v and text-figs, A & B.—*M. swellengrebeli* **sp. n.**, from *Rhodeus amarus*, Holland, diagnosed; SCHUURMANS-STEKHOVEN Amsterdam (J. Clausen) 1918 p. **27**.

Nosema culicis **sp. n.**, note on; BRESSLAU & BUSCHKIEL Biol. Centralbl. **39** p. 327 text-fig. 1.

Pleistophora simulii L. and Spl., notes on life-cycle; DEBAISIEUX & GASTALDI La Cellule **30** p. 196 pl. iii.

Thelohania corethrae **sp. n.**, from *Corethra*-larvae, notes on life-cycle; SCHUBERG & RODRIGUEZ Arb. kais. Gesundhtsa. **50** pp. 122–132 pls. iii & iv.—*T. multispora, fibrata* and *bracteata* Strickl., life-history compared; DEBAISIEUX & GASTALDI La Cellule **30** pp. 189–196 pls. i & ii.—*T. varians* (Lég.), life-history described; DEBAISIEUX T.c. pp. 46–79 pls. i–iii.

e) Actinomyxidia.

[Vacant.]

(f) Sarcosporidia.

Sarcosporidium sp. indet., occurring in an Indian, note; DARLING J. Parasitol. **6** pp. 98–101 2 text-figs.

(g) Haplosporidia.

Haplosporidium nemertis **sp. n.**, occurrence and note on life-cycle; DEBAISIEUX C. R. Soc. biol. **82** pp. 1399 & 1400.—*H. chitonis* (syn. *Minchinia c*), note on; DEBAISIEUX T.c. p. 1401.

SPOROZOA INCERTAE SEDIS.

(Various and doubtful.)

Amoebidium fasciculatum **sp. n.** from rectum of larvae of *Anax*, notes on; LICHTENSTEIN Arch. Zool. exp. **56** N. et R. pp. 50–62 7 text-figs.

Anaplasma regarded as a true parasite, distinct from *Piroplasma*, comparison with latter, *A. argentinum* Lign., from Argentine cattle; LIGNIÈRES Bull. Soc. Path. exot. **12** pp. 558–566.

Dermomycoides **gen. n.**, *beccarii* **sp. n.**, forming small cysts on *Molge vulgaris*, a parasite of uncertain nature, compared with *Blastocystis* and *Dermocystidium*, described; GRANATA Monit. Zool. ital. **30** pp. 153–160 pls. iv–v.

4.—MASTIGOPHORA.

(a) Flagellata.

Flagellata: *Pantostomatinae, Protomastiginae, Distomatinae*; PASCHER & LEMMERMANN. (Die Süsswasser-Flora Deutschlands, Oesterreichs und der Schweiz . . . hrsg. v. A. Pascher. H. 1.) Jena (G. Fischer) 1914 pp. 138.

Insectan Flagellates, various, notes on, inoculation to mice; LAVERAN & FRANCHINI Bull. Soc. Path. exot. **12** pp. 665–671 2 text-figs.

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Anthophysa vegetans, reproduction in colonial form; ENRIQUES Rend. Acc. Lincei **28** i pp. 287–290.

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Carteria rugulosa **sp. n.** p. 514 pl. lv figs. 1, 2, with **varr. n.** *angulata* fig. 3, *inaequalis* fig. 4, p. 515, *granulosa* **sp. n.** p. 516, figs. 7, 8, *bullulina* **nom. nov.** for *C. multifilis* p. 516; PLAYFAIR Proc. Linn. Soc. N.S.W. **43**.

Chlamydomonas reniformis p. 517, pl. lv figs. 9, 10, *rotula* p. 517, fig. 12, *maculata* p. 518, figs. 15–17 with **varr. n.** *oblonga* fig. 18, *planctonica* fig. 19, p. 519, *paupercula* figs. 21, 22, *pusilla* fig. 23, p. 520, **spp. n.** *C. lismorensis* **var. n.** gracilis p. 517, fig. 11, *angulosa* **var. n.** *obesa* p. 521, fig. 24, *pisiformis* **var. n.** *ocellata* p. 521, fig. 25; PLAYFAIR T.c.

Chlorogonium minimum **sp. n.** p. 521, pl. lv fig. 26; PLAYFAIR T.c.

Dicercomonas **gen. n.** (*Tetramitidae*) *soudanensis* **sp. n.**, from Man, notes on morphology and affinities; CHALMERS & PEKKOLA J. trop. Med. **22** pp. 29 & 30 1 pl.

Diplocercomonas **nom. n.** for *Dicercomonas* praeocc.; CHALMERS & PEKKOLA T.c. p. 190.

Dinenympha gracilis Leidy, account of division; ZULUETA Trab. Mus. Nac. Cienc. Nat. Ser. Zool. **23** pp. 1–25 1 pl.

Ditrichomonas **gen. n.** for *Trichomonas termitis* Imms, morphology and division; CUTLER Q. J. Microsc. Sci. **63** pp. 555–588 pls. xxxi–xxxiii.

Enteromonas bengalensis **sp. n.**, from human intestine, note on; CHATTERJEE Ind. J. Med. Res. **6** pp. 380–382 1 text-fig.

Euglena limosa **sp. n.**, occurrence, biology and minute structure; GARD C. R. Acad. Sci. **169** pp. 1423–1425.—*E.* **sp. n.** (unnamed) Iowa: SPENCER Proc. Iowa Acad. **24** p. 342 fig. 55 (29 & 30).

Herpetomonas [probably really *Leptomonas*] *denticis* **sp. n.**, occurrence and note; FANTHAM S. Afr. J. Sci. **16** p. 186.

Jenningsia **gen. n.** (allied to *Peranemidae*) *diatomophaga* **sp. n.**, description; SCHAEFFER Trans. Amer. Micr. Soc. **37** pp. 177–182 pl. xiii.

Lamblia (*Giardia*) *denticis* **sp. n.**, occurrence and note; FANTHAM S. Afric. J. Sci. **16** p. 186.

Leptomonas ctenocephali, cultural forms described and compared with those of *L. ctenopsyllae*; LAVERAN & FRANCHINI Bull. Soc. Path. exot. **12** pp. 310–313 2 text-figs.—*L. c.* further notes on, obtained from infected mouse; LAVERAN & FRANCHINI T.c. pp. 379–383 3 text-figs.—*L. davidi*, transmitted by a Hemipteran (*Stenocephalus*), developmental phases; FRANÇA Bull. Soc. Path. exot. **12** pp. 513 & 514.

Medusochloris **gen. n.** (*Volvocineae*) *phiale* **sp. n.**, a remarkable new form, morphology and mode of movement; PASCHER Biol. Centralbl. **37** p. 424 text-figs. 2, 4, 5.

Nematochrysis sessilis **nom. n.**; PASCHER Ber. D. bot. Ges. **32** 1914 p. 430.

Octomitus intestinalis occurring in numbers in the blood of frogs; PONSELLE C. R. Soc. Biol. **82** pp. 23 & 24 1 text-fig.

Pentatrichomonas sp., note on, ingestion of red blood-cells; HAUGHWOUT & LEON Philippine J. Sci. **14** pp. 207–219 1 pl.

Phacotus crassus p. 523 pl. lvi figs. 7, 8, *glaber* p. 523, figs. 9, 10, *australis* p. 524 figs. 13, 14, **spp. n.**; PLAYFAIR Proc. Linn. Soc. N.S.W. **43**.

Pteromonus angulosa **varr. n.** *scutiformis* pl. lv fig. 29, *vexilliformis* fig. 30, p. 522; PLAYFAIR T.c.

Synura uvella, notes on membrane, locomotor organellae; PETERSEN Vid. Medd. **69** pp. 345–357 pl. v.

Trachelomonas, genus and species characterized, with special reference to French forms, *T. elegans* p. 202, pl. i fig. 5, *umbilicophora* p. 202 fig. 7, *margaritifera* fig. 9, *cribrum* fig. 10, *amphora* fig. 11 and **var. n.** *fusiformis* fig. 12, p. 203, *kufferathi* fig. 21, *torleyi* fig. 22, p. 209, *ovoides* p. 211, fig. 25, **spp. n.**, *T. volvocina* var. *derephora* p. 201 fig. 3, *euchlora* var. *parvula* p. 207 fig. 17, **varr. n.**, France, diagnosed; CONRAD Ann. Biol. lacustre **8**.—*T.* **sp. n.** (unnamed—*teres*-group), Iowa; SPENCER Proc. Iowa Acad. **24** p. 343 fig. 55 (No. 36).

Trichomonas intestinalis, cultivation, alleged cyst-formation; BOYD J. Parasitol. **5** pp. 132–136 pl. xi.—*T.* spp., and other Trichomonads, nuclear division and multiple fission in, described; KOFOID & SWEZY Proc. Amer. Acad. **51** pp. 287–378 8 pls. and 7 text-figs.

Trypanoplasma carassii Swezy, an ectoparasite of gold-fish, notes on; SWEZY Trans. Amer.-Microsc. Soc. **38** pp. 20–24 pl. vi.

Trypanosoma capigobii and *nudigobii* **spp. n.**, occurrence and note; FANTHAM S. Afr. J. Sci. **16** p. 187.—*T. berberum*, hereditary transmission from mother to foetus; SERGENT & LHÉRITIER Bull. Soc. Path. exot. **12** pp. 177 & 178.—*T. brucii* and *T. rhodesiense*, question of specific differences; LAVERAN Bull. Soc. Path. exot. **9** pp. 731–738.—*T. evansi* reappearance of kinetonucleus in an akinetonucleate strain; LAVERAN C. R. Acad. Sci. **168** pp. 749–751.—*T. guyanense*, from *Bovidae*, diagnosed; LÉGER & VIENNE Bull. Soc. Path. exot. **12** pp. 258–266.—*T. le royi* **sp. n.**, from *Cinixis*, note on; COMMES Bull. Soc. Path. exot. **12** p. 16.—*T. rhodesiense*, notes on morphology and behaviour of strains from Portuguese E. Africa; HUGHES Ind. J. Med. Res. **7** pp. 464–474 1 pl.—*T. voltariae* **sp. n.**, from *Naja nigricollis*, diagnosed; MACFIE Ann. trop. Med. Parasitol. **13** pp. 23 & 24 pl. i figs. 1–4.

Volvox aureus **var. n.** *hemisphaericus* p. 526 pl. lvi figs. 19, 20; PLAYFAIR Proc. Linn. Soc. N.S.W. **43**.

(b) Silicoflagellata.

[Vacant].

(c) **Dinoflagellata.**

Peridinida, from plancton, Flemish coast, with new forms; MEUNIER Mém. Mus. Roy. Hist. Nat. Bruxelles **8** No. 1 116 pp. pls. xv-xxi.

Peridinida, Gulf of Lyons, notes on; PAVILLARD Trav. Stat. Zool. Cette Sér. mixte No. **4** 1916 70 pp. pls. i–iii.

Amylax diacantha **sp. n.**, p. 74 pl. xix figs. 33–36, Belgian coast; MEUNIER Mem. Mus. Roy. Hist. Nat. **8** No. 1.

Ceratium reticulatum form *hiemalis* **form. nov.**; PAVILLARD Trav. Stat. Zool. Cette No. **4** p. 20 text-fig. 1.

Clipeodinium **gen. n.** (*Peridinidae*) *medusa* **sp. n.** a remarkable new form, morphology and movement; PASCHER Biol. Centralbl. **37** p. 426 text-figs. 3 & 6.

Coolia **gen. n.** (*Peridinidae*), p. 67, *monotis* p. 68 pl. xix figs. 13–19, **sp. n.**, Belgian coast, diagnosed; MEUNIER Mém. Mus. Roy. Hist. Nat. **8** No. 1.

Dinophysis intermedia p. 58 pl. iii fig. 4, *lenticula* p. 59, fig. 6, *D. homunculus* **var. n.** *ventricosa* p. 56 text-fig. 15, *diegensis* **var. n.** *caudata* p. 57 pl. iii fig. 2, Gulf of Lyons; PAVILLARD Trav. Stat. Zool. Cette No. **4**.

Exuviaella minima **sp. n.**; PAVILLARD T.c. p. 11 pl. i fig. 1.

Gonyaulax monacantha **sp. n.** p. 21 pl. i figs. 7 & 8, **varr. n.** *major* and *minor* p. 22; PAVILLARD T.c.—*G. cochlea* p. 71 pl. xix figs. 26–32, *loculatum* p. 73 figs. 37, 38, **spp. n.**, diagnosed; MEUNIER Mem. Mus. Roy. Hist. nat. Bruxelles **8** No. 1.

Gymnodinium meervalli **sp. n.**, Netherlands, diagnosed; REDEKE Bijd. tot de Dierk. **21** p. 128 text-fig. 1, 2.

Oxytoxum elegans **sp. n.**; PAVILLARD Trav. Stat. Zool. Cette No. **4** p. 43 pl. ii fig. 4.

Peridinium cystiferum p. 31 text-fig. 5, *mite* p. 36, fig. 9, **spp. n.**, *leonis* **nom. n.** (for *saltans* Pav.) p. 32 fig. 6, Gulf of Lyons, diagnosed; PAVILLARD T.c.—*P. micrapium* p. 31 pl. xvi figs. 37–45, *deficiens* p. 44 pl. xx figs. 5–8, *nudum* p. 46 pl. xviii figs. 1–5, *fimbriatum* p. 47 fig. 6–10, *divaricatum* p. 48 pl. xix figs. 55–58, *yserense* p. 49 figs. 50–54, *tuberosum* p. 52 pl. xviii figs. 23–27, *stagnale* p. 53 figs. 28–32, **spp. n.** coasts of Flanders; MEUNIER Mém. Mus. Roy. Hist. Nat. **8** No. 1.—*P. aciculiferum* **var. n.** *abcoudense*, Netherlands, diagnosed; REDEKE Bijd. Dierk. **21** p. 132 text-figs. 3 & 4.

Phalacroma acutum **sp. n.**; PAVILLARD Trav. Stat. Zool. Cette No. **4** p. 55 pl. iii fig. 7.

Properidinium **gen. n.** p. 54, for *aspinum* (*monospinum* Paulsen) nobis, p. 55 pl. xviii figs. 33-36, *avellana* **sp. n.** p. 56, figs. 37–41, *heterocapsa* (Stein) nobis p. 58 pl. xix figs. 43–49; MEUNIER Mém. Mus. Roy. Hist. nat. Bruxelles **8** No. 1.

Ptychodiscus inflatus **sp. n.**, Gulf of Lyons, diagnosed; PAVILLARD Trav. Stat. Zool. Cette No. **4** p. 12 pl. i fig. 3.

(d) **Rhynchoflagellata.**

[Vacant.]

5.—CILIOPHORA (INFUSORIA).

(a) **Ciliata.**

Anoplophrya **sp. n.** indet., from Enchytraeid worms, diagnosed; FRIEND Lanc. Nat. **11** p. 92.

Bursaria, reversibility of morphogenetic processes; LUND J. exp. Zool. Philadelphia **24** 1917 pp. 1–32 pls. i–vi.

Collinella **gen. n.** (*Nicollellidae*) *gondii* **sp. n.**, described; CHATTON & PÉRARD Bull. Soc. Zool. **44** pp. 14–16 text-fig. 2.

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Nicollella **gen. n.** (*Nicollellidae* **fam. n.**), *ctenodactyli* **sp. n.**, from intestine of gondi, described; CHATTON & PÉRARD Bull. Soc. Zool. **44** pp. 10–14 1 text-fig.

Nyctotherus ovalis Leidy, division described; ZULUETA Trab. Mus. Nac. Cienc. Nat. Ser. Zool. **26** pp. 1–16 6 text-figs.

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Paramoecium, periodic renewal of the nuclear apparatus, without cell-conjugation; ERDMANN & WOODRUFF Biol. Centralbl. **34** pp. 484–496 6 text-figs.—*P.*, parthenogenetic phenomena and depression-periods in; HERTWIG T.c. pp. 557–581 5 text-figs.

Prorodon utahensis **sp. n.**, morphology and behaviour; PACK Biol. Bull. **36** p. 280 text-figs. 3–5.

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Ptychocylis amphorella **sp. n.**, Flemish coast, diagnosed; MEUNIER Mem. Mus. Roy. Hist. Nat. **8** 2 p. 14 pl. xxii figs. 4–7.

Systylis **gen. n.** (*Vorticellidae*) *hoffi* **sp. n.**, morphology and phases in life-history described; BRESSLAU Biol. Centralbl. **39** pp. 41–59 7 text-figs.

Tintinnidae, plancton, Flemish coast, with new forms; MEUNIER Mém. Mus. Roy. Hist. Nat. Belg. **8** No. 2 59 pp. pls. xxii & xxiii.

Tintinnopsis fistularis p. 23 pl. xxii fig. 21, *bulbulus* p. 24, figs. 22, 23, *vasculum* p. 25, fig. 25, *strigosa*, fig. 26, *turbo* fig. 27, p. 26, *producta* fig. 34, *glans* figs. 35, 36, p. 29, *avellana* p. 30, fig. 37, *fimbriata* p. 31, figs. 38, 39, **spp. n.**, plancton, Belgian coast; MEUNIER Mem. Mus. Roy. Hist. Nat. **8** No. 2.

Uroleptus mobilis, nuclear behaviour in division and conjugation described; CALKINS J. exp. Zool. **27** pp. 293–357 95 text-figs.—*U. packii* **sp. n.** Calkins, Great Salt Lake, diagnosis and behaviour in culture; PACK Biol. Bull. **36** p. 277 text-figs. 1 & 2.

Vorticella ovum p. 4, text-fig. 1, *punctata* p. 5, pl. i and text-fig. 2, **spp. n.**, occurrence and diagnosis; DONS Tromsø Mus. Aarsh. **40**.

(b) Tentaculifera (Suctoria).

Metacineta sp. n. (unnamed, near *mysticina*) Iowa; SPENCER Proc. Iowa Acad. **24** p. 350 fig. 57 (60 & 61).

PROTOZOA INCERTAE SEDIS.

†A fossil, regarded as a Protozoan, but of undetermined type, from Limestone, N. Sweden; ROSEN Bull. geol. Inst. Upsala **16** pp. 159–168 text-figs. 1–4.

III. PORIFERA OR SPONGIDA

ARRANGED BY

H. M. WOODCOCK, D.Sc. (Lond.).

CONTENTS

PAGE

I. Titles 2

II. Subject Index:—

General works, economics, and technique = 0603 .. 3
Anatomy = 0607 3
Physiology = 0611.. 3
Development and growth = 0615.. 3
Ethology = 0619 3
Variation, Phylogeny = 0623 3
Distribution, Geography = 0627 3

III. Systematic = 0631

Porifera, general 3
Calcarea 3
Non-Calcarea 4
Myxospongida (vacant).
Hexactinellida 4
Tetraxonida 4
Homosclerophora (vacant).
Astrotetraxonida (vacant).
Sigmatotetraxonida 4
Lithistida (vacant).
Euceratosa (vacant).

I.—TITLES.

Allemand-Martin, A. *vide* Vaney, C.

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II.—SUBJECT INDEX.

GENERAL, ECONOMICS AND TECHNIQUE. 0603

Bibliography.

Woodcock, 21.

ANATOMY. 0607

[Vacant.]

PHYSIOLOGY. 0611

General and Comprehensive.

v. Trigt, 19.

DEVELOPMENT AND GROWTH. 0615

Reproduction, Budding.

Arnesen, 5.

ETHOLOGY. 0619

Biology, Habitat.

Vaney & Allemand-Martin, 20.

VARIATION, PHYLOGENY. 0623

Phylogeny.

Douvillé, 8.

DISTRIBUTION (GEOGRAPHY). 0627

GEOGRAPHICAL (RECENT).

Europe.

Chumley, 6; Hernandez, 10 & 11; Sharp, 15; Woodruffe-Peacock, 22.

America.

Cross, 7.

Asia.

Annandale, 1 & 3.

Africa.

Annandale, 4; Stephens, 16.

Pacific Ocean.

Hozawa, 12.

GEOLOGICAL (FOSSIL).

Secondary.

Douvillé, 8; Tilmann, 17.

Primary.

Lees & Thomas, 13; Mansuy, 14.

III.—SYSTEMATIC. 0631

PORIFERA, GENERAL.

Fresh-water sponges (*Spongillidae*) comprehensive account of the physiology; v. TRIGT Tijdschr. Ned. Dierk. Ver. Ser. 2 **17** pp. 1–220 pls. i–vi.

CALCAREA.

Calcarea, from N.W. Pacific, with new forms, diagnosed; HOZAWA Proc. U.S. Nat. Mus. **54** pp. 525–556 pls. lxxxiv & lxxxv and 11 text-figs.

Achramorpha diomediae **sp. n.**, Simushir Isl.; HOZAWA Proc. U.S. Nat. Mus. **54** p. 540 pl. lxxxv fig. 10 and text-fig. 6.

†*Barroisia bertrandi* **sp. n.**, Cretaceous, note on; DOUVILLE Bull. Soc. geol. France sér. 4 **14** 1914 p. 399 pl. xii fig. 6.

†*Cystothalamia asiatica* p. 8 pl. i fig. 1, pl. v fig. 1, *takreemensis* p. 9, pl. v fig. 2, **spp. n.**, Carboniferous, Indochina; MANSUY Mém. Serv. géol. Indochine **3** fasc. iii.

Grantia nipponica p. 534 pl. lxxxiv fig. 8, text-fig. 4, *beringiana* p. 537 fig. 9 and text-fig. 5, **spp. n.**; HOZAWA Proc. U.S. Nat. Mus. **54**.

Heteropia medioarticulata **sp. n.**, off Saghalin; HOZAWA T.c. p. 531 pl. lxxxiv fig. 7 and text-fig. 3.

†*Holcospongia laminata* **sp. n.**, Liassic, Peru; TILMANN Neues Jahrb. Mineral **41** p. 705 pl. xxvi figs. 1–3.

Leucandra tuba p. 542 pl. lxxxiv fig. 3 and text-fig. 7, *poculiformis* p. 545 fig. 4 and text-fig. 8, *foliata* p. 547 fig. 5 and text-fig. 9, *kurilensis* p. 549 pl. lxxxv fig. 11 and text-fig. 10, *splendens* p. 551 figs. 12–14 and text-fig. 11, **spp. n.**, N.W. Pacific; HOZAWA Proc. U.S. Nat. Mus. **54**.—*L. sulcata* p. 532 fig. 1, and text-figs. 1 & 2, *riojai* p. 535 fig. 2 and text-figs. 3 & 4, **spp. n.**, Santander; HERNANDEZ Rev. Real Acad. Ci. **16**.

Leucosolenia albatrossi **sp. n.**, off Copper Isl.; HOZAWA Proc. U.S. Nat. Mus. **54** pl. lxxxiv fig. 1 and text-fig. 1.

†*Sollasia dussaulti* **sp. n.**, p. 9 pl. i fig. 2, Carboniferous, Indochina, MANSUY Mém. Serv. géol. Indochine **3** fasc. iii.

Sycon simushirensis **sp. n.**; HOZAWA Proc. U.S. Nat. Mus. **54** p. 529 pl. lxxxiv fig. 6 and text-fig. 2.

NON-CALCAREA.

(a) Myxospongida.

[Vacant.]

(b) Hexactinellida.

†*Sphaerospongia tessalata* (Phillips), note on; ELWES J. Torquay Nat. Hist. Soc. **2** p. 291.

(c) Tetraxonida.

(i) HOMOSCLEROPHORA.

[Vacant.]

(ii) ASTROTETRAXONIDA.

[Vacant.]

(iii) SIGMATOTETRAXONIDA.

Artemisina hispanica **sp. n.**, Santander; HERNANDEZ Rev. real Acad. Ci. **16** p. 536 fig. 3 and text-fig. 5.

†*Clionolithes lizardensis* **sp. n.**, Ste. genevieve beds, Fort Dodge; LEES & THOMAS Proc. Iowa Acad. **25** p. 605 pl. xii figs. 25, 26.

Corvospongilla victoriae **sp. n.**, from the Zambesi, diagnosed; ANNANDALE Beitr. Kenntn. Land- u. Süsswasserfauna D. Sudwestafr. Lfg. **2** p. 243 pl. vi figs. 4 & 5 A-C.

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Trochospongilla latouchiana **subsp. n.** *sinensis*, from China, diagnosed; ANNANDALE Rec. Ind. Mus. **16** p. 457.

(iv) LITHISTIDA.

[Vacant.]

(d) Euceratosa.

[Vacant.]

IV. COELENTERATA

ARRANGED BY

A. KNYVETT TOTTON.

CONTENTS

	PAGE
I. Titles	2
II. Subject Index :—	
General and Miscellaneous = 0803	5
Structure = 0807	6
Physiology = 0811..	6
Development = 0815	6
Ethology = 0819	6
Variation and Phylogeny = 0823..	6
Distribution = 0827 :—	
Geographical	6
Geological	7
III. Systematic Index = 0831 :—	
Hydrozoa	7
Graptolitoidea	12
Scyphozoa	13
Anthozoa :—	
Alcyonaria	13
Zoantharia	14
Ctenophora (vacant).	

I.—TITLES.

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Skeats, E. W. *vide* **Chapman.**

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Stechow, E. Supplement zu den Indices Generum von Scudder 1882 und Waterhouse 1902 und 1912. Zool. Jahrb. Syst. **42** (173–188). **82**

Stiasny, G. Die Scyphomedusen-Sammlung des Naturhistorischen Reichsmuseums in Leiden. I. Die Carybdeiden (Cubomedusen). Zool. Med. Leiden **5** 1 (33–58) text-figs. **83**

Stiasny, G. Die Scyphomedusen-Sammlung des Naturhistorischen Reichsmuseums in Leiden. II. *Stauromedusae, Coronatae, Semaestomeae.* Zool. Med. Leiden **5** 2 (66–98) text-figs. pls. ii–iii. **84**

Tannreuther, G. W. The migration of reproductive organs from parent to buds in *Hydra*. Biol. Bull. Wood's Hole Mass. **37** (418–422) text-figs. **85**

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Warren, E. On the anatomy of a new South African hydroid, *Bimeria rigida* sp. n. Ann. Natal. Govt. Museum **4** part 1 (1–18) pls. i–ii text-figs. **92**

Warren, E. Observations on cellular degeneration and the formation of pigment in certain Hydroids. Ann. Natal Govt. Museum **4** part 1 (103–135) pl. xii text-figs. **93**

II.—SUBJECT INDEX.

GENERAL AND MISCELLANEOUS.

0803

Coral reef formation; **Vaughan, 88.**

Die Hydrozoenriffnatur der Epsilonkalke; **Berckhemer, 7.**

Fossil and living coral reefs; **Vaughan, 87.**

Inadequacy of single collection as survey of Medusa fauna of a region; **Bigelow, 9.**

Abnormal *hydromedusae*; **Neppi, 69.**

Supplement to the Indices generum of Scudder 1882 and Waterhouse 1902 and 1912; **Stechow, 82.**

Cubomedusae in Leiden Museum; **Stiasny, 83.**

Scyphomedusae of Leiden Museum; **Stiasny, 84.**

STRUCTURE. 0807

Histology of *Antipatharia*; **Pax, 74.**

The interstitial cells of *Hydra*; **Schulze, 80.**

PHYSIOLOGY. 0811

Axial gradients in *Hydra*; **Child & Hyman, 16.**

Axial gradients in *Hydrozoa*; **Child, 17.**

Function of *cinclides*; **Gravier, 38.**

Action of Potassium cyanide on coelenterates; **Hyman, 51.**

Cellular degeneration and formation of pigment in *Hydroida*; **Warren, 93.**

Growth rate of corals; **Magor, 65.**

DEVELOPMENT. 0815

General.

Mesodermic origin of sex cells of *Coelenterata*; **Dantan, 20.**

Pedogenesis with or without Viviparity in *Actiniaria*; **Gravier, 40.**

L'Origine endodermique des entéroïdes chez les Hexacoralliaires; **Krempf, 56.**

Origin of directives of *Hexacoralla* in a primitive biradial stage; **Krempf, 56.**

Development of *Gorgonacea*; **Kükenthal, 59.**

Early development of *Alcyonaria*; **Moser, 68.**

Ovum and Oogenesis.

Migration of reproductive organs in *Hydra*; **Tannreuther, 85.**

Germ cells and chromosomes of *Coelenterata*; **Hargitt, 41.**

Development of sexual organs in *Actiniaria*; **Gravier, 39.**

Regeneration and Experimental.

Die Bildung u. Rückbildung der Ovarien an *Hydra*; **Goetsch, 34.**

Bildung u. Rückbildung der Hoden an *Hydra*; **Goetsch, 33.**

ETHOLOGY. 0819

Längsteilung bei *Hydra*; **Wachs, 91.**

Clava krempfi parasitic in *Alcyonium*; **Billard, 10.**

Effects of winter 1917–18 on *Sagartia luciae*; **Parker, 73.**

Sagartia luciae; **Hausman, 43.**

Growth rate of Pacific coral reefs; **Mayor, 65.**

Corals; **Vaughan, 88.**

Migrations of Ctenophores and Coelenterates on W. Coast N. America; **Fraser, 30.**

VARIATION AND PHYLOGENY. 0823

Variations in *Aglaophenia pluma*; **Bedot, 6.**

Variation of *Tiaropsis multicirrata*; **Kramp, 55.**

Variation in *Anemone hepatica*; **Galant, 31.**

Phylogeny of *Antipatharia*; **Pax, 75.**

Die Stammegeschichte der *Plexauridae*; **Kükenthal, 58.**

DISTRIBUTION. 0827

1. Geographical.

A.—MARINE.

General.

Distribution of *Antipatharia*; **Pax, 75.**

Atlantic (including Mediterranean).

Firth of Clyde, *Anthomedusae*; **Dick, 21.**

Hydroida; **Crallan, 19.**

Coelenterata; **Garstang, 32.**

Coelenterates of Port Erin; **Herdman, 47.**

Medusae; **Kramp, 55.**

Species of *Favia*; **Matthai, 64.**

Hydroida; **Stechow, 81.**

Indian Ocean.

Coelenterate fauna of Chandipore, Orissa; **Gravely, 36.**

Anthozoa; **Voeltzkow, 90.**

New Hydroid; **Warren, 92.**

Pacific Ocean,

Japanese *hydroida*; **Jäderholm, 53.**

Madreporaria; **Folkeson, 28.**

Hydroida; **Fraser, 29.**

Southern Ocean.

Hydroida; **Bale, 4.**

Malay area.

Alcyonaria; **Moser, 67.**

Hydromedusae, Siphonophores and Ctenophores; **Bigelow, 9.**

New *hydroida*; **Billard, 11.**

Arctic.

Arctic *Hydroida*; **Jäderholm, 52.**

B.—FRESH WATER.

Craspedacusta from Boss Lake near Elkhart Indiana; **Hargitt, 42.**

Hydra fusca in Lake Maxinkuckee; **Everman, 26.**

Hydra from Seistan; **Annandale, 3.**

Limnocnida pool in Yennah river; **Annandale, 2.**

2. Geological.

Cainozoic.

Fossil actinian; **Angrasani, 1.**

Tabulaten, *Acantharia*; **Dietrich, 23.**

Korallen aus dem Kalk des Treibenstein-Sunk bei Hohentauern; **Heritsch, 48.**

Moltkia spp.; **Nielsen, 70.**

Corals from Veglia Id.; **Oppenheim, 71.**

Corals from Kosavin; **Oppenheim, 72.**

Mesozoic.

New corals; **Chadwick, 13.**

Solenopora (?); **Heritsch, 49.**

Palaeozoic.

Les "*Fistulipora*" globuleux; **Saléé, 77.**

Corals from Indochina; **Mansuy, 63, 61.**

Graptolithidae; **Hede, 46.**

Graptolithidae; **Kirste, 54.**

Gottlands graptoliter; **Hede, 45.**

Graptolitoidea; **Hede, 44.**

Corals from Kentucky; **Foerste, 27.**

Graptolite sub-faunas of Anglesey; **Elles, 25.**

Fossil hydroids from Lower Palaeozoic of Monegetta, Victoria; **Chapman, 15.**

Fossil *Calyptoblastea* 40 miles N. of Melbourne; **Chapman, 14.**

†*Graptolitoidea*; **Born, 8.**

Fossil *Coelenterata* of Maryland; **Bassler, 5**

New genus of *Tetracoralla*; **Ehlers, 24.**

Cryptophyllum gen. n.; **Carruthers, 12.**

Corals of Ste. Genevieve limestone; Chester series; **Ulrich, 86.**

Aulophyllum; **Salée, 76.**

Anthozoa and *Hydrozoa* from Indochina; **Mansuy, 62.**

III.—SYSTEMATIC. 0831

HYDROZOA.

Aequoridae p. 308; *Aequorea pensile* p. 311 figs.; *macrodactylum* (Brandt) p. 313 fig., BIGELOW Bull. U.S. Nat. Mus. **100.**

Agastra, STECHOW Zool. Jahrb. **42** Syst. p. 151.

Aglaophenia pluma, BEDOT Rev. Suisse **27** p. 244 figs.

Aglaophenia adriatica, Monaco, p. 143; *dichotoma*, Cette, p. 144; *helleri*, Mediterranean p. 144; *nanella* **sp. n.** Villefranche, p. 145 fig.; *pluma* p. 147; *reflexa* **nom. n.** for *A. plumosa* Pennington, p. 147 *septifera*, Mediterranean, p. 148; *bilobidentata* p. 148;

tenerrima p. 148 fig., Chile; *tenuinoda* **nom. n.** for *A. gracillima* Borradaiel p. 150, STECHOW Zool. Jahrb. **42** Syst.—*A. whiteleggei* p. 24 fig.; *suensoni* p. 24 fig., Japan, JÄDERHOLM Arkiv. Zool. **12** 9.—*A. sinuosa* p. 352; *bakeri* **sp. n.** p. 353 figs.; *brachiata* p. 354, BALE Proc. R. Soc. Vict. **31**.

Amphicaryon acaule, Philippines, BIGELOW Bull. U.S. Nat. Mus. **100** p. 332.

Antennella secundaria, Tonga, Mediterranean, p. 111; *siliquosa*, Mediterranean, p. 112; *quadriaurita*, Havana, p. 113, STECHOW Zool. Jahrb. **42** Syst.

Antennellopsis integerrima p. 20; *dofleini* p. 20, Japan, JÄDERHOLM Arkiv. Zool. **12** 9.

Antennularia octoseriata, JÄDERHOLM Arkiv. Zool. **12** 9 p. 23.

†*Archaeocryptolaria* **gen. n.** *skeatsi* **sp. n.** p. 392 figs.; *recta* p. 392 figs., Monegetta, Victoria, CHAPMAN Proc. R. Soc. Vict. **31**.

†*Archaxolafoëa* **gen. n.** p. 390 *longicornis* **sp. n.** p. 390 figs., Monegetta, Victoria, CHAPMAN Proc. R. Soc. Vict. **31**.

Archisoma natans, Philippines, BIGELOW Bull. U.S. Nat. Mus. **100** p. 344.

†*Aulacera* (*Beatricea*) *undulata*, SCHUCHERT Amer. J. Sci. **47** p. 293 fig.

Balea mirabilis, Japan, JÄDERHOLM Arkiv. Zool. **12** 9 p. 4.

Balella **gen. n.** for *Balea* Nutting, STECHOW Zool. Jahrb. **42** Syst. p. 154.

Beroe cucumis var. *ovata* pl. 38 figs. 8–10, BIGELOW Bull. U.S. Nat. Mus. **100**.

Bibrachium **gen. n.** (=*Amphibrachium* F. E. Schulze 1880), STECHOW Zool. Jahrb. **42** Syst. p. 6.

Bimeria fluminalis, Orissa open sea, GRAVELY Rec. Ind. Mus. 16 p. 396.—*B. fragilis* **sp. n.**, Villefranche, p. 28; *nutans* p. 30, STECHOW Zool. Jahrb. **42** Syst.—*B. rigida* **sp. n.** Pondoland, WARREN Ann. Natal Govt. Mus. **4** 1 p. 1 figs.

Bonneviella p. 329, BALE Proc. R. Soc. Vict. **31**.

Bourgainvillia vanbenedeni, Cette, pp. 25, 154; *longicirra* p. 25, St. Thomas; *ramosa*, Rovigno p. 27; *rugosa*, St. Thomas p. 27, STECHOW Zool. Jahrb. **42** Syst.

Branchiocerianthus, STECHOW Zool. Jahrb. **42** Syst. p. 153.

Bythotiaridae p. 286, BIGELOW Bull. U.S. Nat. Mus. **100**.

Calamphora campanulata, Natal, STECHOW Zool. Jahrb. **42** Syst. p. 83.

Campanularia indopacifica **sp. n.**, Japan, p. 156; *villafrancensis* **nom. n.** for *C. attenuata* Stechow p. 157, STECHOW Zool. Jahrb. **42** Syst.—*C. acuta* nom. n. for *C. raridentata* Marktanner nec aut. p. 54; *alta* **sp. n.**, Villefranche, p. 55 fig.; *hincksi*, Villefranche, p. 57; *raridentata*, Mediterranean, Helgoland, Port Erin, pp. 58, 155 fig.; *rara* **sp. n.**, Marseille p. 60 fig.; *C. attenuata* **sp. n.**, Villefranche, p. 61 fig.; *brachycaulis* **sp. n.**, Villefranche, p. 62 fig.; *angulata*, Mediterranean, p. 63 fig.; *calceolifera*, Mediterranean, p. 65; *lennoxensis*, Rio de Janeiro, p. 66; *intermedia* **sp. n.**, Mediterranean, p. 66 fig., STECHOW Zool. Jahrb. **42** Syst.—*C. tincta* p. 12; *chinensis* p. 13, Japan, JÄDERHOLM Arkiv. Zool. **12** 9.

Calycopsis p. 289; *geometrica* p. 290 figs.; *typa* p. 292 figs., BIGELOW Bull. U.S. Nat. Mus. **100**.

Chromatonema rubrum, KRAMP Danish Ingolf Exp. **5** 8 p. 7 figs.

Chuniphyes multidentata Philippines, BIGELOW Bull. U.S. Nat. Mus. **100** p. 344.

Cladocarpella p. 355; *multiseptata* p. 356; BALE Proc. R. Soc. Vict. **31**.

Cladocarpus bocki **sp. n.** Japan, JÄDERHOLM Ark. Zool. **12** No. 9 p. 24 pl. 6 figs. 3–4.—*integer*, Davis Str., JÄDERHOLM K. Svensk. Vet. Ak. Handl. **60** 9 p. 10.—*moebiusi* p. 135; *lignosus* p. 135, STECHOW Zool. Jahrb. **42** Syst.

†*Clathrodictyon yunnanense* **sp. n.** Devonian Indochina, MANSUY Mém. Serv. géol. Indochine **3** 2 p. 4 figs.

Clavactinia gallensis, Chandipore, GRAVELY Rec. Ind. Mus. 16 p. 396.

Clavopsella **gen. n.** p. 21; *weismanni* (Hargitt 1904) p. 22, STECHOW Zool. Jahrb. **42** Syst.

Clytia mollis **sp. n.**, Cette, p. 44 fig.; *paulensis* pp. 45–155; *serrulata* p. 46 fig.; *ulvae* **sp. n.**, Marseille, p. 47 fig.; *warreni* nom. n. for *elongata* Warren non Marktanner, Algoa Bay, p. 48; *angulosa*, Rio de Janeiro p. 49; *dichotoma*, Cuba, Marseille, Naples, Triest, p. 49; *geniculata*, Villefranche p. 50, STECHOW Zool. Jahrb. **42** Syst.—*linearis*, Japan, JÄDERHOLM Arkiv. Zool. **12** 9 p. 12.

Colobonema p. 321; *typicum* p. 322, BIGELOW Bull. U.S. Nat. Mus. **100.**

Cordylophora lacustris, Bremerhafen, Kaiserhafen I., STECHOW Zool. Jahrb. **42** Syst. p. 11.

Coryne muscoides p. 4; *pusilla* p. 5 fig.; STECHOW Zool. Jahrb. **42** Syst.

Cosmetira pilosella p. 61; *megalotis* p. 64, N. Atlantic, KRAMP Danish Ingolf Exp. **5** 8.

Craspedacusta sp., Indiana, HARGITT Sci. N. York **50** p. 414.

†*Cryptophyllum* **gen. n.** p. 439; *hibernicum* **sp. n.** p. 440 figs., Carboniferous, CARRUTHERS Geol. Mag. London Secade 6 **6.**

Cuspidella costata, Mediterranean, STECHOW Zool. Jahrb. **42** Syst. p. 73.

Cytaeis vestita, STECHOW Zool. Jahrb. **42** Syst. p. 24.

†*Dictyonema* sp., Indochina, MANSUY Mém. Serv. géol. Indochine **3** 2 p. 59 figs.

Diphasia pulchra, Arctic, JÄDERHOLM K. Svensk. Vet. Ak. Handl. **60** 9 p. 7.

Diphyes contorta, p. 338, BIGELOW Bull. U.S. Nat. Mus. **100.**

Diphyopsis chamiossonis p. 342; *bojani* p. 339; *dispar* p. 340, BIGELOW Bull. U.S. Nat. Mus. **100.**

†*Ellipsactinia suevica* **sp. n.**, BERCKHEMER Jahresb. Ver. Württemb. **75** p. 25 figs.

Eudendrium generale p. 335, BALE Proc. R. Soc. Vict. **31.**—*E. simplex* p. 30; *Capillare* p. 31; *rameum* p. 32; *ramosum* p. 32; *racemosum* p. 32, STECHOW Zool. Jahrb. **42** Syst.—*E. cnidoferum* nom. n. for *E. armatum* Jäderholm; *insigne*, Villefranche, p. 154, STECHOW Zool. Jahrb. **42** Syst. p. 154.

Eutima p. 296; *levuka* p. 299, BIGELOW Bull. U.S. Nat. Mus. **100.**

Eutonina indicans, N. Atlantic, KRAMP Danish Ingolf Exp. **5** 8 p. 98.

Gonothyraea bicuspidata, Cette, p. 51; *gracilis*, Mediterranean, p. 51; *hyalina*, Cette, Triest p. 52 fig.; *loveni*, Marseille, Triest, p. 53, STECHOW Zool. Jahrb. **42** Syst.

Halecium lankesteri (Bourne), STECHOW Zool. Jahrb. **42** Syst. p. 157.—*annulatum* nom. n. (=*H. pusillum* Motz-Kossowska 1911 nec aut.) p. 33; *conicum* nom. n. (=*H. minutum* Motz-Kossowska 1911) p. 34; *mediterraneum* (=*H. flexile* Allman 188) p. 34; *petrosum* nom. n. (=*H. robustum* Motz-Kossowska 1911, nec Pieper) p. 36.—*pusillum*, Villefranche, p. 36 fig.; *reflexum* **sp. n.** Villefranche, p. 37 figs.; *robustum* p. 39; *tenellum* p. 41 figs.; STECHOW Zool. Jahrb. **42** Syst.

Halicornaria p. 124; *hians*, Kermadec Id., p. 125; *pansa*, Tonga, p. 125 fig.; STECHOW Zool. Jahrb. **42** Syst.—*hians* var. *profunda* p. 26 fig.; *expansa* p. 26 fig., Japan, JÄDERHOLM Arkiv. Zool. **12** 9.

Halocharis indopacifica **sp. n.**, Japan, STECHOW Zool. Jahrb. **42** Syst. p. 152.

Halopsis ocellata, N. Atlantic, KRAMP Danish Ingolf Exp. **5** 8 p. 65 figs.

Hebella gigas, Villefranche, Marseille, p. 76; *parasitica*, Villefranche, p. 76; *scandens*, Pondoland, p. 77 fig.; *brochi* (Hadzi) Villefranche, Marseille, p. 78, STECHOW Zool. Jahrb. **42** Syst.

Hemicarpus pennarius, STECHOW Zool. Jahrb. **42** Syst. p. 136.

Heterostephanus annulicornis, Mediterranean, STECHOW Zool. Jahrb. **42** Syst. p. 9 fig.

Heterotiara p. 287; *minor* p. 287 figs., BIGELOW Bull. U.S. Nat. Mus. **100.**

Hydra, SCHULZE Archiv für Biontologie **4** 2 p. 29.—SCHULZE Sitz. gesellsch. Natur. Freunde **1918** p. 252.—*vulgaris*, Seistan, ANNANDALE Rec. Ind. Mus. **18** p. 90.—*fusca*, Lake Maxinkuckee, EVERMANN Proc. Indiana Acad. **1918** p. 240.—GOETSCH Biol. Centralb. **39** 12 p. 544.—Australia, BALE Proc. R. Soc. Vict. **31** p. 356.—WUCHS Biol. Centralb. **39** 1 p. 1 figs.

Hydractinia, Goette Zool. Jahrb. Syst. **39** p. 471.—*fucicola*, Quarto bei Genua, Stechow Zool. Jahrb. **42** Syst. p. 13.

Idiella **gen. n.** for *Idia* Lamx, Stechow Zool. Jahrb. **42** Syst. p. 106.

Kirchenpaueria pinnata, Stechow Zool. Jahrb. **42** Syst. p. 107 figs.

Lafoea dumosa, Mediterranean, p. 80 fig.; *serpens*, Mediterranean, p. 81, Stechow Zool. Jahrb. **42** Syst.

Laodicea undulata, N. Atlantic, Kramp Danish Ingolf Exp. **5** 8 p. 16 figs.

Laodiceidae, Kramp Danish Ingolf Exp. **5** 8 p. 4.

Leuckartiara octona, Bigelow Bull. U.S. Nat. Mus. **100** p. 282 figs.

Lictorella cervicornis California, Fraser Tr. R. Soc. Can. **12** p. 134 fig.—*Stechowi* **sp. n.** Japan, Jäderholm Ark. Zool. **12** No. 9 p. 11 pl. ii fig. 7.

Limnocnida indica, Yennah river, Annandale Rec. Ind. Mus. **16** p. 110.

Liriope tetraphylla, Philippines, Bigelow Bull. U.S. Nat. Mus. **100** p. 325.

Lytocarpus filamentosus Natal, Warren Ann. Natal. Govt. Mus. **4** 1 p. 109 figs.—*phillipinus* p. 351, Bale Proc. R. Soc. Vict. **31**.

Lytocarpia graeffei (Kirchenpaner 1876) (=*Lytocarpus balei* Billard), Tonga. p. 128 fig.; *multiplicatopinnata* (K. 1876=*L. hornelli* Thornely) Red Sea, p. 131 fig.; *philippina*, Tonga, Red Sea, p. 132 fig.; *singularis*, Ternale, p. 134, Stechow Zool. Jahrb. **42** Syst.

Lytoscyphus subrufus (Jäderholm), Stechow Zool. Jahrb. **42** Syst. p. 81.

Melicertum p. 47, *octocostatum* p. 52 figs.; *campanula* p. 57, N. Atlantic, Kramp Danish Ingolf Exp. **5** 8.

Mitrocomidae p. 58; *mitrocoma polydiademata* p. 59; N. Atlantic, Kramp Danish Ingolf Exp. **5** 8.

Monobrachium parasitum W. Coast N. America, Fraser Tr. R. Soc. Can. **12** p. 131 fig.

Monotheca obligua, Mediterranean, Stechow Zool. Jahrb. **42** Syst. p. 113.

Nauarchus p. 319; *halius* p. 320 figs., Bigelow Bull. U.S. Nat. Mus. **100**.

Nemertesia cylindrica p. 350, Bale Proc. R. Soc. Vict. **31**.—*irregularis* p. 23 fig.; *ciliata* p. 23, Japan, Jäderholm Arkiv. Zool. **12** 9.—*disticha* (Heller), Marseille, p. 120 fig.; *ramosa* p. 122; *tetrasticha*, Villefranche, p. 123 fig.; *japonica* p. 124, Stechow Zool. Jahrb. **43** Syst.

Neoturris p. 283; *pileata* p. 285 figs, Bigelow Bull. U.S. Nat. Mus. **100**.

Obelia dubia W. Coast N. Amer., Fraser Tr. R. Soc. Can. 12 p. 133 fig.—*spinulosa*, Orissa, Gravely Rec. Ind. Mus. **16** p. 396.—*nigra*, N. Atlantic, Kramp Danish Ingolf Exp. **5** 8 p. 89.

Octocanna p. 306; *aphrodite* **nom. nov.** p. 307 figs., Bigelow Bull. U.S. Nat. Mus. **100**.

Odontotheca p. 102; *bidens*, Pondoland, p. 102, Stechow Zool. Jahrb. **42** Syst.

Olindiinae p. 317; *Olindias* p. 317; *singularis* p. 318, Bigelow Bull. U.S. Nat. Mus. **100**.

Ophiodes australis **sp. n.**, Bale Proc. R. Soc. Vict. **31** p. 336 pl. 16.

Ophiodissa **gen. n.** (= Ophiodes Hincks 1866) pl 41; *mirabilis* p. 42, Stechow Zool. Jahrb. **42** Syst.

Opercularella lacerta, Mediterranean, Stechow Zool. Jahrb. **42** Syst. p. 74 fig.

Ophinella **gen. n.** for *Ophionema* Hincks, Stechow Zool. Jahrb. **42** Syst. p. 107.

Orthopyxis p. 331, Bale Proc. R. Soc. Vict. 31,—*caliculata*, Mediterranean, p. 68 fig.; *compressa*, Villefranche, p. 69; *pacifica* **sp. n.**, Vancouver, p. 69 fig.; *volubiliformis* p. 70; *asymmetrica* **sp. n.**, Marseille, p. 71 fig., Stechow Zool. Jahrb. **42** Syst.

Paragattya intermedia, Natal, Warren Ann. Natal Govt. Mus. **4** 1 p. 125 figs.

Pelmatohydra oligactis, Siberia, Stechow Zool. Jahrb. **42** Syst. p. 152.

Perigonimus gelatinosus, Helgoland, p. 13; *nanellus* **sp. n.**, Naples, p. 14 fig.; *nudus* **sp. n.**, Triest, p. 16 fig.; *pusillus* p. 17, Stechow Zool. Jahrb. **42** Syst.

Phialidium hemisphericum p. 91 figs.; *islandicum* **sp. n.** p. 95 figs., N. Atlantic, Kramp Danish Ingolf Exp. **5** 8.

Phialucium p. 293; *mbengha* p. 295; var. *polynema* **var. n.** p. 296 fig.; BIGELOW Bull. U.S. Nat. Mus. **100.**

Phortis p. 301; *ceylonensis* p. 304; *elliceana* p. 305 figs., BIGELOW Bull. U.S. Nat. Mus. **100.**

Physalia utriculus, scarcity in Indo-Pacific in 1907–10, BIGELOW Bull. U.S. Nat. Mus. **100** p. 347.

Plumularia plagiocampa p. 21 fig.; *spiralis* p. 22 fig.; *obliqua* p. 22 fig.; *campanula* p. 22 fig.; *filicaulis* var. *japonica* n. var. JÄDERHOLM Ark. Zool. **12** No. 9 p. 21 pl. 5 figs. 2–3.—*diaphana*, Tonga, Mediterranean, p. 114; *hertwigi*, Japan, p. 117 fig.; *milleri*, Ternate p. 119; *warreni* nom. n. for *P. tenuis* Warren p. 119, STECHOW Zool. Jahrb. **42** Syst.—*plumularoides* Vancouver Island, FRASER Tr. R. Soc. Can. **12** p. 136 fig.—*filicaulis* p. 341; var *indivisa* p. 341; *scabra* p. 342 figs.; *rotunda* p. 343 fig.; *everta* p. 344 fig.; *balei* p. 344 fig.; *corrugatissima* p. 346 fig.; *lagenifera* p. 347; *caliculata* p. 348, BALE Proc. R. Soc. Vict. **31.**

Podocoryne, GOETTE Zool. Jahrb. Syst. **39** p. 469.

Protiara tropica, BIGELOW Bull. U.S. Nat. Mus. **100** pl. 39 figs. 1–4.

Protiaropsis **gen. n.** for *Heterotiara* Maas, STECHOW Zool. Jahrb. **42** Syst. p. 150.

Ptychogena lactea, N. Atlantic, KRAMP Danish Ingolf Exp. **5** 8 p. 31 figs.

Pycnotheca **gen. n.** for *Diplocheilus* Allman, STECHOW Zool. Jahrb. **42** Syst. p. 110.

Rhizotrichia gen. n. (=Trichorhiza Russell 1906), STECHOW Zool. Jahrb. **42** Syst. p. 9.

Rhophalonema velatum, BIGELOW Bull. U.S. Nat. Mus. **100.**

Sacculina **gen. n.** p. 332; *arenosa* p. 333, BALE Proc. R. Soc. Vict. **31.**

Scandia mutabilis, Gulf of Mexico, STECHOW Zool. Jahrb. **42** Syst. p. 79.

Sertularella mediterranea, Natal, WARREN Ann. Natal Govt. Mus. **4** 1 p. 120 figs.—*gayi* var. *gracilescens* var. n. p. 17 fig.; *areyi* p. 18; *tropica* p. 19; *inabai* p. 19, Japan, JÄDERHOLM Arkiv. Zool. **12** 9.—*rentoni* p. 337 fig.; *diaphana* p. 337 fig.; *torregi* p. 338; *minuscula* **nom. nov.** for *pusilla* Bale p. 340; *mccallumi* p. 340 figs., BALE Proc. R. Soc. Vict. **31.**—*pedunculata* p. 18 fig.; *crassa* p. 18 fig.; *inconstans* p. 19 fig.; *intricata* p. 20 fig.; *acutidentata* p. 20 fig.; *timorensis* p. 21 fig.; *delicata* p. 21 fig.; *decipiens* p. 21 fig.; *serrata* p. 22 fig.; **spp. n.**, BILLARD Arch. Zool. Exper. N. et Rev. 58.—*africana* nom. n. for *S. fusiformis* Warren nec Hincks, Natal, p. 83; *fusiformis*, Mediterranean, p. 84 fig.; *lagenoides* **sp. n.**, Mediterranean, p. 86 fig.; *crassicaulis*, Mediterranean p. 87; *tongensis* **sp. n.** p. 89, STECHOW Zool. Jahrb. **42** Syst.

Sertularia operculata, Natal, WARREN Ann. Natal Govt. Mus. **4** 1 p. 116 figs.—*linealis*; *loculosa* p. 122 figs., Natal, WARREN Ann. Natal Govt. Mus. **4** 1.—*rugosissima* p. 15 fig.; *tenera* p. 15, Japan, JÄDERHOLM Arkiv. Zool. **12** 9.—*aestuaria* nom. n. for *S. humilis* Congdon p. 157; *indomalayica* **nom. n.** for *Caminothuiaria moluccana* Campenhausen p. 158, STECHOW Zool. Jahrb. **42** Syst.—*brevicyathus*, Tonga, p. 91 fig.; *densa* **sp. n.**, Villefranche, p. 93, fig.; *distans*, Mediterranean, p. 94 fig.; *maldivensis*, Tonga, p. 97 fig.; *perpusilla* **sp. n.** Mediterranean, p. 99 fig.; *snyderi*, Tonga, p. 101; *tongensis* **sp. n.** p. 101 fig., STECHOW Zool. Jahrb. **42** Syst.

Silicularia p. 329; *undulata* p. 327, BALE Proc. R. Soc. Vict. **31.**

Siphonophora, Philippines, BIGELOW Bull U.S. Nat. Mus. **100** p. 331.

Solmissus p. 327, *marshalli* p. 329, BIGELOW Bull U.S. Nat. Mus. **100.**

Stauridiosarsia, STECHOW Zool. Jahrb. **42** Syst. p. 7.

Staurophora mertensii, N. Atlantic, KRAMP Danish Ingolf Exp. **5** 8 p. 39 figs.—STECHOW Zool. Jahrb. **42** Syst. p. 151.

Staurotheca, STECHOW Zool. Jahrb. **42** Syst. p. 82.

Stegopoma fastigiatum p. 72; *plicatile* p. 73, STECHOW Zool. Jahrb. Syst. **42.**

Stereotheca **gen. n.** p. 103; *pluridentata* p. 103, STECHOW Zool. Jahrb. **42** Syst.

Stylactis inermis, Villefranche, STECHOW Zool. Jahrb. **42** Syst. p. 23.—GOETTE Zool. Jahrb. Syst. **39** p. 470.

Synthecium evansii, Mediterranean, STECHOW Zool. Jahrb. **42** Syst. p. 82.

Thamnitis cidaritis, Mediterranean, STECHOW Zool. Jahrb. **42** Syst. p. 24.

Thecocarpus brevirostris, Tonga, p. 137 figs.; *phyteuma*, Tonga, p. 139 figs., STECHOW Zool. Jahrb. **42** Syst.—*myriophyllum* var. *orientalis* p. 25 fig., Japan, JÄDERHOLM Arkiv. Zool. **12** 9.

Thuiaria geniculata nom. n. for *T. distans* Fraser 1914, FRASER Tr. R. Soc. Can. **12** p. 136.—*carica*, W. Coast N. America, FRASER Tr. R. Soc. Can. **12** p. 135 fig.—*argentea*, Mediterranean, p. 104; *cupressina*, Mediterranean, p. 105; *tenera*, Trondhjem, p. 105 fig., STECHOW Zool. Jahrb. **42** Syst.—*tubuliformis* Natal, WARREN Ann. Natal Govt. Mus. **4** 1 p. 113 figs.

Thuiella **gen. n.**; *subarticulata* (Coughtrey) p. 106, STECHOW Zool. Jahrb. **42** Syst.

Tiarella singularis, N. Coast Jersey, CRALLAN Soc. Jers. Bull. **41** p. 131.

Tiaropsis mulicirrata, N. Atlantic, KRAMP Danish Ingolf Exp. **5** 8 p. 77 figs.

Tima bairdii, N. Atlantic, KRAMP Danish Ingolf Exp. **5** 8 p. 102 figs.

Tricyclusa **gen. n.** (=*Tiarella* F. E. Schulze 1876) STECHOW Zool. Jahrb. **42** Syst. p. 6.

Zygocanna p. 314; *vagans* p. 315 figs., BIGELOW Bull. U.S. Nat. Mus. **100.**

Zygophylax brevitheca **sp. n.** Japan, JÄDERHOLM Ark. Zool. **12** No. 9 p. 9 pl. 2 fig. 4.

GRAPTOLITOIDEA.

†*Climacograptus* p. 102; *scalaris* p. 103 fig.; *normalis* p. 105 fig.; *rectangularis* p. 106; *medius* p. 107 figs.; *tornquisti* p. 107 fig.; *minutus* p. 108 figs.; *internexus* p. 108 fig.; *hughesi* p. 109 fig.; *undulatus* p. 110; *binodosus* p. 111; *innotatus* p. 111 fig.; *weiscianus* p. 111; *abnormis* p. 112 *tectoides* p. 112, KIRSTE Int. Osterlande N.F. **16.**—*putillus* p. 202 figs.; *spinifer* p. 203 figs.; *bicornis* p. 204 fig., BASSLER Maryland Geol. Surv. 1919

†*Corynoides calicularis*, BASSLER Maryland Geol. Surv. 1919 p. 206 figs.

†*Cyrtograptus* spp., KIRSTE Int. Osterlande N.F. **16** p. 197 figs.

†*Demirastrites* spp., KIRSTE Int. Osterlande N.F. **16** p. 212 figs.

†*Dimorphograptus* p. 137; *confertus* p. 138; *swanstoni* p. 138 figs.; *decussatus* p. 139 figs.; *physophora* p. 139 fig.; *elongatus* p. 140 figs.; *longissimus* p. 140; *ciliatus* p. 141, KIRSTE Int. Osterlande N.F. **16.**

†*Diplograptus* p. 112; *insectiformis* p. 113 fig.; *vesiculosus* p. 114 figs.; *juncus* p. 115 figs.; *bellulus* p. 116 fig.; *mutabilis* p. 117 figs.; *cyperiodes* p. 117; *tamariscus* p. 117 figs.; *dentatus* p. 118; *sinuatus* p. 119 fig.; *modestus* p. 120 figs.; *diminutus* p. 121 figs.; *magnus* p. 122 fig.; *confertus* p. 122 fig.; *palmeus* p. 123 figs.; *altissimus* p. 128; *folium* p. 128 figs.; *ovatus* p. 131 figs.; *cometa* p. 132 figs.; *tubulariformis* p. 133 fig.; *acuminatus* p. 134 figs.; *birastrites* p. 135 figs.; *zimmermani* p. 135 fig.; *thuringiacus* p. 136, KIRSTE Int. Osterlande N.F. **16.**—*vespertinus*, BASSLER Maryland Geol. Surv. 1919 p. 205 figs.

†*Graptolitoidea*, Mittelsilur, BORN Senckenbergiana **1** (2) p. 52.—†Gottland, HEDE Sver. Geol. Undersök. (C) **12** No. 8.—*Graptolitoidea*, Anglesey, ELLES Geol. of Anglesey **2** p. 414.

†*Mastigraptus monegettae* **sp. n.**, CHAPMAN Proc. R. Soc. Victoria **31** p. 391 figs.

Monograptus dubius p. 9; *flemingi* p. 10, HEDE Sver. Geol. Undersök. **C 281.**—†*bohemicus* p. 117 fig.; *crinitus* p. 118 fig.; *dubius* p. 118 fig.; *nilssoni* p. 119 fig.; Silurian Skåne, HEDE Geol. Fören. **41** 2.—†*Monograptus* p. 142; *clingoni* p. 144 fig.; *resurgens* p. 144 fig.; *vomerinus* p. 145 figs.; *spinulosus* p. 147 fig.; *continens* p. 148 figs.; *speciosus* p. 148 figs.; *densus* p. 149; *nilssoni* p. 149; *sulteri* p. 150; *sandersoni* p. 151 figs.; *atavus* p. 152; *incommodus* p. 152 figs.; *tenuis* p. 153 fig.; *concinnus* p. 153 fig.; *argutus* p. 154 figs.; *revolutus* p. 154 fig.; *priodon* p. 155 figs.; *jaekeli* p. 158; *pseudopriodon* p. 159 figs.; *pandus* p. 159 fig.;

marri p. 160 figs.; *riccartonensis* p. 161; *flemingi* p. 161 figs.; *sedgwicki* p. 162 figs.; *halli* p. 164 fig.; *galaensis* p. 164 fig.; *incoyi* p. 165 fig.; *becki* p. 165 figs.; *lobiferus* p. 167 figs.; *flogelaris* p. 168 fig.; *distans* p. 168 figs.; *exiguus* p. 169 figs.; *nodifer* p. 169 figs.; *crispus* p. 170 fig.; *millepeda* p. 170 fig.; *argenteus* p. 171 fig.; *cygneus* p. 172 fig.; *limatulus* p. 173 fig.; *gemmatus* p. 173 figs.; *runcinatus* p. 174 fig.; *dextrorsus* p. 175 fig.; *turriculatus* p. 175 figs.; *proteus* p. 177 figs.; *armatus* p. 178 fig.; *spiralis* p. 178 fig.; *velcs* p. 180 figs.; *planus* p. 181 fig.; *planoides* p. 182 fig.; *mirus* p. 182 figs.; *intermedius* p. 183 figs.; *elongatus* p. 183 fig.; *involutus* p. 183 fig., KITSTE Mt. Osterlande N.F. **16**

†*Rastrites* spp., KIRSTE Mt. Osterlande N.F. **16** p. 202 figs.

†*Retiolites macilentus* Silurian Skåne, HEDE Geol. Fören. **41** 2 p. 119.

†*Pristiograptus* spp., KIRSTE Mt. Ostelande N.F. **16** p. 184 figs.

SCYPHOZOA.

Aurelia aurita var. *colpota* p. 91; *maldivensis* p. 92 figs.; *labiata* p. 93; *flavidula* p. 95, STIASNY Zool. Med. **5** 2.

Carybdea xaymacana, Haiti p. 35 figs.; *alata* var. *moseri* p. 37 fig., STIASNY Zool. Med. **5** 1.

Carybdeidae, STIASNY Zool. Med. **5** 1 p. 33 47 52.

Chiropsalmus buitendijki, STIASNY Zool. Med. **5** 1 p. 46 figs.

Chrysaora hysoscella p. 72; *melanaster* p. 73, STIASNY Zool. Med. **5** 2.

Cyanea capillata var. *buitendijki* var. n. Semarang, p. 87; var. *ferruginea* p. 88; var. *nozakii* p. 89; var. *lamarcki* p. 90; var. *capillata* p. 90, STIASNY Zool. Med. **5** 2.

Dactylometra quinquecirrha, STIASNY Zool. Med. **5** 2 p. 75 figs.

Nausithoë punctata var. *pacifica*, STIASNY Zool. Med. **5** 2 p. 70 figs.

Scyphomedusae, STIASNY Zool. Med. **5** 2 p. 66.

Tamoya bursaria, STIASNY Zool. Med. **5** 1 p. 38 figs.

ANTHOZOA.

ALCYONARIA.

†*Acantharia* (= *Ubaghsia*), DIETRICH Centralb. Min. **1919** p. 214.

†*Chaetetes capilliformis* p. 210 fig.; *polyporus* p. 211. DIETRICH Centr. Min. **1919.**

Echinogorgia, key to spp. p. 344; *mertoni* p. 346; *abietina* p. 346, **spp. n.** Aru Is.; *sphaerophora* **sp. n.** E. Ind. p. 346; *gracillima* p. 347 **sp. n.** Philippines, KÜKENTHAL Zool. Anz. **48.**

Eunicea, key to spp., KÜKENTHAL Zool. Anz. **48** p. 335.

Eunicella, key to spp. p. 341; *lata* p. 342; *densa* p. 342, **spp. n.** West Africa, KÜKENTHAL Zool. Anz. **48.**

Euplexaura, key to spp. p. 331; *pendula*, **sp. n.**, W. Austr., p. 333 KÜKENTHAL Zool. Anz. **48.**

†*Fistulipora*, SALÉE Bull. Soc. Belge Géol. **29** p. 46 ff.

†*Gorgonella torta*, Danien, NIELSEN Geol. Fören. **40** 4 p. 462 fig.

†*Moltkia minuta* **sp. n.**, Senon, p. 463 figs.; *isis* p. 464 fig.; *lyelli* p. 465 fig., NIELSEN Geol. Fören. **40** 4.

Leptogorgia irramosa, MOLANDER Ark. Zool. **12** No. 5 figs.

Lobophytum revision p. 257; *sarcophytoides* p. 267 figs.; *batarum* p. 268 figs., **spp. n.**; *crebriplicatum* p. 272 fig., var. *crassospiculatum* var. n. p. 273 fig.; *gazellae* **sp. n.** p. 274 figs.; *schoedei* **sp. n.** p. 276 figs.; *pauciflorum* p. 277 fig., var. *validum* p. 281 fig., var *philippinense* var. n. p. 281 fig.; *crassum* p. 282 fig., var. *cristagalli* p. 286 fig., var. *borbonicum* p. 287 fig.; *hedleyi* p. 287 fig.; *lighti* **sp. n.** p. 289 fig.; *viride* p. 290; *latum* p. 290, MOSER Mitt. Zool. Mus. Berlin **9** 2.

Paraplexaura, key to spp., KÜKENTHAL Zool. Anz. **48** p. 341.

Pennatularia, KÜKENTHAL Das Tierreich **43.**

Pennatulina biserialia nom. n. for *Pennatulacea* bilateralia, KÜKENTHAL Das Tierreich **43** p. 26.

Plexaurella, key to spp., KÜKENTHAL Zool. Anz. **40** p. 333.

Plexauridae, KÜKENTHAL Zool. Anz. **48** p. 330.

Plexauroides, key to spp., KÜKENTHAL Zool. Anz. **48** pp. 336 340.

†*Primnoa costata*, Danien, NIELSEN Geol. Fören. **40** 4 p. 462 fig.

Rhabdoplexaura nom. n. for *Hicksonella* Nutting, KÜKENTHAL Zool. Anz. **48** p. 333.

Sarcophyton revision p. 221; *latum* p. 236 figs.; *latum* var. *voeltzkowi* var. n. p. 239 figs.; *ehrenbergi* p. 240 fig.; *ehrenbergi* var. *stellatum* p. 242 fig.; *crassocaule* **sp. n.** p. 243 figs.; *acutangulum* p. 244 fig.; *trocheliophorum* p. 246 figs.; *digitatum* **sp. n.** p. 249 figs.; *elegans* **sp. n.** p. 252 figs.; *glaucum* p. 253 fig., MOSER Mitt. zool. Mus. Berlin **9** 2.

†*Solenopora* (?) *hilberi*, Upper Jura Dobrudscha, HERITSCH J. K. K. Geol. Reichs. Wien **67** (2) 1917 p. 335.

Subselliflorae **subordo nov.** (*Umbelulidae*), KÜKENTHAL Das Tierreich **43** p. 59.

Sympodium coralloides, Marseille, VAYSSIÈRE Ann. Mus. Hist. Nat. Marseille **17** p. 105.

†*Tetradium syringoporoides* p. 200 figs.; *columnare* p. 201 fig.; *cellulosum* p. 202 figs.; *simplex* **sp. n.** Beekmantown Limestone, Maryland, p. 199 figs., BASSLER Maryland Geol. Surv. 1919.

ZOANTHARIA.

Acropora pharaonis, growth rate, MAYOR Zool. Soc. Bull. **22** p. 137.—†*panamensis* p. 480 figs.; †*saludensis* p. 480 figs. **spp. n.**; *muricata* p. 481, VAUGHAN Bull. U.S. Mus. **103.**

Actinacis p. 486; †*alabamiensis* p. 486 figs., VAUGHAN Bull. U.S. Mus. **103.**

Agaricia †*anguillensis* p. 428 figs.; †*dominicensis* p. 428 figs. **spp. n.**, VAUGHAN Bull. U.S. Mus. **103.**

Alveolites ramosa p. 5 figs.; *subaequalis* p. 5 fig.; *denticulata* p. 6 figs.; *yunnanensis* **sp. n.** p. 6 fig., Devonian Indochina, MANSUY Mém. Serv. Géol. Indochine **3** 2.

Anemone hepatica, GALANT Biol. Centralb. **39** 12 p. 529.

Antiguastraea **gen. n.** p. 401; *cellulosa* p. 402 figs. var. *silicensis* var. n. p. 408 figs., VAUGHAN Bull. U.S. Mus. **103.**

Antipatharia, PAX Zool. Jahrb. Syst. **41** p. 467.

Antipathes gracilis, GRAVIER Bull. Mus. Paris 1919 (4) p. 266.

†*Arachnophyllum* (*Strombodes*) *granulosum* **sp. n.** p. 318 fig.; *mamillaredistans* var. n. p. 319 figs.; *spinulosum* **sp. n.** p. 321 figs., Silurian Kentucky, FOERSTE K. Geol. Surv. **7.**

†*Archohelia* **gen. n.** p. 352; *limonensis* **sp. n.** p. 353 figs., VAUGHAN Bull. U.S. Mus. **103.**

†*Areopsammia* **gen. n.** p. 307; *mastrichtensis* **sp. n.** p. 307, DIETRICH Sitz. Ges. nat. Freunde **1917.**

†*Asterosmilia hilli* **sp. n.**, VAUGHAN Bull. U.S. Mus. **103** p. 355 figs.

†*Astraeopora asperima*, Eocene Veglia Id., OPPENHEIM Ver. K. K. Geol. Reichs. Wien **1914** p. 189.

Astreopora †*goethalsi* p. 483; †*antiguensis* p. 484; †*portoricensis* p. 485, **spp. n.** figs., VAUGHAN Bull. U.S. Mus. **103.**

†*Astrocoenia guantanamensis* p. 347; *incrustans* p. 347; *decaturensis* p. 348; *meinzeri* p. 349; *portoricensis* p. 350 **spp. n.** figs.—*d'achiardi* p. 346 figs.; *incrustans* p. 347, VAUGHAN Bull. U.S. Mus. **103.**—†*expansa*, Eocene Veglia Id., OPPENHEIM Ver. K. K. geol. Reichs. Wien **1914** p. 190.

†*Aulophyllum fungites*, Dinantien of Spy, SALÉE Bull. Soc. Belge Géol. **29** p. 29.

†*Aulopora serpens*, Devonian Indochina, MANSUY Mém. Serv. Géol. Indochine **3** 2 p. 7 figs.

Axopora parisiensis, Eocene Veglia Id., OPPENHEIM Ver. K. K. geol. Reichs. Wien **1914** p. 191.

Balanophyllia †*pittieri* **sp. n.** p. 479 figs., Costa Rica, VAUGHAN Bull. U.S. Mus. **103.**

†(?) *Bunodes* sp., Sepino, ANGRISANI Rend. accad. Napoli (3) **23** 1917 p. 54 fig.

†*Calostylis spongiosa* **sp. n.**, Silurian Kentucky, FOERSTE K. geol. Surv. **7** p. 322 figs.

†*Columnaria halli*, BASSLER Maryland Geol. Surv. 1919 p. 198 fig.

Cyathomorpha rochettina p. 456 figs.; *hilli* **sp. n.** p. 457 figs. *browni* p. 458 figs. **sp. n.**; *belli* **sp. n.** p. 459 figs.; *splendens* **sp. n.** p. 460 figs.; *anguilensis* **sp. n.** p. 460 figs. *roxboroughi*

sp. n. p. 461 figs.; *antiquensis* p. 463 figs.; *tenuis* p. 467 figs., VAUGHAN Bull. U.S. Mus. **103.**

†*Cyathophyllum* **sp. n.,** Kalk des Treibensteins, HERITSCH Mitt. geol. ges. Wien **9** (3-4) p. 155.—*densiseptatum* p. 314 figs.; *sedentarium* p. 315 figs.; *solitarium* p. 317 figs. **spp. n.,** Silurian Kentucky, FOERSTE K. geol. Surv. **7.**—*ceratites* Indochina, MANSUY Mém. Serv. geol. Indochine **3** 2 p. 4 figs.—*cambodgiense* **sp. n.,** Carboniferous Indochina, MANSUY Mém. Ser. Géol. Indochine **3** 3 p. 11 figs.

Diploastraea p. 469; *heliopora* p. 470 figs.; †*crassolamellata* p. 470 figs., VAUGHAN Bull. U.S. Mus. **103.**

Favia conferta p. 73 figs.; *fragum* p. 80 figs.; *gravida* p. 86; *leptophylla* p. 92; *whitfieldi* p. 92, Atlantic, MATTHAI Terra Nova Report **5** 2.—*vasta,* Australia, FOLKESON K. Svensk. Vet. Ak. Handl. **59** p. 15 fig.—†*macdonaldi* **sp. n.,** VAUGHAN Bull. U.S. Mus. **103** p. 413 figs.

Favites †*mexicana* **sp. n.** p. 414 figs.; †*polygonalis* p. 415, VAUGHAN Bull. U.S. Mus. **103.**

†*Favosites gothlandica* p. 298 figs.; *hisingeri-aplata* var. n. p. 299 figs.; *declinata* **sp. n.** p. 300 figs.; Silurian Kentucky, FOERSTE K. geol. Surv. **7.**—†*gothlandica,* Indochina, MANSUY Mém. Serv. géol. Indochine **3** 2 p. 17 fig. —*forbesi,* Gothlandien Dông-van, MANSUY Mém. Serv. Géol. Indochine **4** 3 p. 16 figs.

Flabellum rubrum p. 4; *angiostomum* **sp. n.** p. 5 figs., Australia, FOLKESON K. Svensk. Vet. Ak. Handl. **59** 1.

Fungia cyclolites, Australia, FOLKESON K. Svensk. Vet. Ak. Handl. **59** 1 p. 16.—*moluccensis* **sp. n.,** Moluccas, HORST van der Zool. Med. **5** 2 p. 65 figs.

Goniopora †*jacobiana* p. 492; †*imperatoris* p. 493; †*canalis* p. 494; †*portoricensis* p. 495; †*clevei* p. 496; †*cascadensis* p. 497; †*hilli* p. 488; †*panamensis* p. 489; †*decaturensis* p. 490 var *silicensis* var. n. p. 491 var. *bainbridgensis* var. n. p. 491, **spp. n.** figs., †*regularis* p. 491; VAUGHAN Bull. U.S. Mus. **103.**

Goniastraea †*canalis* **sp. n.,** VAUGHAN loc. cit. p. 416 fig.

†*Heliolites spongiosa* **sp. n.** p. 303 figs.; *subtubulata* (?) p. 304 figs., Silurian Kentucky, FOERSTE K. Geol. Surv. **7.**—*interstincta* Gothlandien Tonkin, MANSUY Mém. Serv. géol. Indochine **4** 3 p 15 figs.

Herpolitha simplex, Australia, FOLKESON K. Svenska Vet. Ak. Handl. **59** 1 p. 17.

Heterocyathus alternatus p. 10 figs.; *aequicostatus* Australia, FOLKESON K. Svensk. Vet. Ak. Handl. **59** 1 p. 8 figs.

†*Heterolasma* **gen. n.** *foersti* **sp. n.,** Niagaran of Michigan, EHLERS Amer. J. Sci. **48.**

Leptoria †*spenceri* **sp. n.,** VAUGHAN Bull. U.S. Mus. **103** p. 421 figs.

Leptosammia columna **sp. n.,** Australia, FOLKESON K. Svenska Vet. Ak. Handl. **59** 1 p. 18 figs.

Leptoseris †*portoricensis* **sp. n.,** VAUGHAN Bull. U.S. Mus. **103** p. 431 figs.

†*Lindstroemia lingulifera* **sp. n.,** Silurian Kentucky, FOERSTE K. Geol. Surv. **7** p. 311 figs.

†*Lindstromia silurensis,* HEDE Sverig. Geol. Undersök **C 281** p. 8 figs.

†*Lobophyllum* ? sp. Indochina, MANSUY Mém. Ser. Géol. Indochine **3** 3 p. 11 figs.

Lithophyllia margariticola, Australia, FOLKESON K. Svenska Vet. Ak. Handl. **59** 1 p. 14 figs.

†*Lonsdaleia canalifera; salinaria,* carboniferous Indochina, MANSUY Mém. Ser. Géol. Indochine **3** 3 p. 12 figs.

†*Lyellia eminula* **sp. n.,** Silurian Kentucky, FOERSTE K. Geol. Surv. **7.**

Maeandra †*antiquensis* p. 417; †*portoricensis* p. 418; †*dumblei* p. 418 **spp. n.** figs.; †*strigosa* p. 420, VAUGHAN Bull. U.S. Mus. **103.**

Manicina †*willoughbiensis* **sp. n.** VAUGHAN Bull. U.S. Mus. 103 p. 422 figs.

†*Menophyllum excavatium* p. 131, 241 figs.; *haimeanum* p. 131, 241 figs.; *princetonense* p. 131, 241, Carboniferous Kentucky, ULRICH K. Geol. Surv. **1917.**

†*Michelinia expansa* **sp. n.,** Indochina, MANSUY Mém. Serv. Géol. Indochine **3** 2 p. 67 figs.

†*Orbicella* p. 362; *imperatoris* p. 378; *bainbridgensis* p. 386; *canalis* p. 389; *tampäensis* p. 390 var. *silecensis* var. n. p. 390; *gabbi* p. 394 **spp. n.** figs.; *annularis* p. 354 figs.; †*limbata* p. 375 figs.; †*antillarum* p. 379; *altissima* p. 379; *cavernosa* p. 380 var. †*endothecata* p. 384 figs. var. †*cylindrica* p. 385 figs.; *aperta* p. 386 fig.; †*costata* p. 387 figs.; †*brevis* p. 391 fig.; †*insignis* p. 392 figs.; †*intermedia* p. 393 fig.; †*irradians* p. 394 figs., VAUGHAN Bull. U.S. Mus. **103**..

Palaeophyllum umbellicrescens p. 129; (*cyathophylloides* ?) *williamsi* p. 128 **spp. n.**, Manitoulin dolomite, CHADWICK Mem. Geol. Surv. Canada.

Paracyathus porphyreus p. 12 figs.; *profundus* p. 13 figs., Australia, FOLKESON K. Svenska Vet. Ak. Handl. **59** 1.

Pavonia †*panamensis* **sp. n.**, VAUGHAN Bull. U.S. Mus. **103** p. 430 figs.

Placotrochus laevis, Australia, FOLKESON K. Svensk. Vet. Ak. Handl. **59** 1 p. 5.

†*Pocillopora arnoldi* p. 343; *baracoanensis* p. 344; *guantanamensis* p. 344 **spp. n.** figs., VAUGHAN Bull. U.S. Mus. **103.**

†*Polyorophe radicula* **sp. n.**, Silurian Kentucky, FOERSTE K. Geol. Surv. **7** p. 313 figs.

Polyphyllia producta **sp. n.**, Australia, FOLKESON K. Svenska Vet. Ak. Handl. **59** 1 p. 17 figs.

Porites †*baracoëensis* p. 499 var. *matanzaensis* var. n. p. 500; †*douvillei* p. 501; *toulai* p. 501; †*panamensis* p. 503; †*anguillensis* p. 504; †*howei* p. 505; †*macdonaldi* p. 506 **spp. n.**, VAUGHAN Bull. U.S. Mus. **103.**

Prionastraea †*anguillensis* p. 433 figs.; †*antiguensis* p. 434 figs. **spp. n.**, VAUGHAN Bull. U.S. Mus. **103.**

†*Ptychophyllum depressum* **sp. n.**, Tonkin, MANSUY Mém. Serv. Géol. Indochine **4** 3 p. 7 figs.

Sagartia luciae, HAUSMAN Biol. Bull. **37** p. 363 figs.

†*Septastraea matsoni* **sp. n.**, VAUGHAN Bull. U.S. Mus. **103** p. 411 figs.

Siderastraea p. 435; *pourtalesi* p. 440 figs.; *pliocenia* p. 441 figs.; *hillsboroensis* p. 442 fig. **spp. n.** *siderea* p. 443 figs. var. *dominicensis* **var. n.** p. 447 figs., *dalli* **sp. n.** p. 450 figs. *conferta* p. 451 figs., VAUGHAN Bull. U.S. Mus. **103.**

Solenastraea hyades p. 395; *bournoni* p. 398, VAUGHAN Bull. U.S. Mus. **103.**

Spongiocyathus **gen. n.**, *typicus* **sp. n.**, Cape Jaubert, FOLKESON K. Svensk. Vet. Ak. Handl. **59** 1 p. 11 figs.

Stephanocoenia intersepta, VAUGHAN Bull. U.S. Mus. 103 p. 356.

†*Streptelasma corniculum*, Trenton Martinsburg, CLARK Bull. Mus. Harvard **63** 1 p. 10. — *profundum*, BASSLER Maryland Geol. Surv. 1919 p. 199 figs.

†*Stylocoenia monticularia*, Eocene Veglia Id., OPPENHEIM Ver. K. K. Geol. Reichs. Wen, **1914** p. 190.

†*Stylophora imperatoris* p. 334 figs.; *panamensis* p. 335 figs.; *portobellensis* p. 338 figs.; *goethalsi* p. 338 figs.; *macdonaldi* p. 339 figs. **spp. n.**, *affinis* p. 336; *granulata* p. 340; *canalis* **sp. n.** p. 341 figs., VAUGHAN Bull U.S. Mus. **103.**

†*Syringolites huronensis*, Silurian Kentucky, FOERSTE K. Geol. Surv. **7** p. 301 figs.

Syzigophyllia †*hayesi* **sp. n.**, VAUGHAN Bull. U.S. Mus. **103** p. 424 figs.

Thysanus †*hayesi* **sp. n.**, VAUGHAN Bull. U.S. Mus. **103** p. 424 figs.

Trachyphyllia amarantus, Australia, FOLKESON K. Svenska Vet. Ak. Handl. **59** 1 p. 15 figs.

Trochoseris †*meinzeri* **sp. n.**, VAUGHAN Bull. U.S. Mus. **103** p. 426 figs.

Turbinaria crater p. 19; *patula* p. 20; *peltata* p. 20; *speciosa* p. 20, Australia, FOLKESON K. Svenska Vet. Ak. Handl. **59** 1.

Urticina eques (Gosse) (? = *Rhodactinia crassicornis* O. F. Muller) Port Erin, HERDMAN Trans. Liverpool Biol. Soc. **33** p. 31.

Zaphrentis intertexta p. 307 figs.; *charaxata* p. 310 figs. **spp. n.**, Silurian Kentucky, FOERSTE K. Geol. Surv. **7.**— †*radicosa* **sp. n.**, Carboniferous Kentucky, ULRICH K. Geol. Surv. **1917** p. 131 240 figs.

V. ECHINODERMA

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CONTENTS.

PAGE

I. Titles 4

II. Subject Index :—

General = 1003 :—

1. Historical 8
2. General treatises and Monographs 8
3. Bibliography } (vacant).
4. Pedagogy }
5. Museums 8
6. Technique 8
7. Nomenclature 8
8. Local lists 8
9. Ethology (vacant).

Structure = 1007 :—

1. General accounts 9
2. Symmetries (vacant).
3. Homologies of classes 9
4. Skeletal tissue or Stereom 9
5. Skeletal anatomy 9
6. Hydrocoel, Respiratory organs, etc. 9
7. Other body cavities and their contents (vacant).
8. Digestive system, Cuvierian organs 9
9. Nervous system and sense-organs 9
10. Mesodermal tissues .. .. } (vacant).
11. Axial organ .. .. .. }
12. Generative organs and gonads }

PAGE

Physiology = 1011 :—

1. General (vacant).
2. Circulation 9
3. Respiration (vacant).
4. Alimentation 9
5. Excretion } (vacant).
6. Sensation }
7. Experimental 9

Development = 1015 :—

1. General principles } (vacant).
2. General accounts }
3. Formation of gonads }
4. Oviposition, Fertilisation, Segmentation 9
5. Larval stages 9
6. Organogeny .. .. } (vacant).
7. Post-larval growth-stages }
8. Experimental embryology 9

Ethology = 1019 :—

1. General accounts (vacant).
2. Special habits 9
3. Habitat 9
4. Feeding 9
5. Defence and protection 9
6. Locomotion 9
7. Autotomy and regeneration 9
8. Parasites and commensals 9
9. Protection of young .. } (vacant).
10. Sexual dimorphism .. }
11. Relation to other animals }
12. Geological aspect 9
13. Phenology } (vacant).
14. Hybridization }
15. Echinoderms as food 9

Variation and Aetiology = 1023 :—

1. Variation in form (vacant).
2. Variation in colour 9
3. Variation, meristic, numerical } (vacant).
4. Variation, meristic, homoeotic }
5. Variation, teratological 9
6. Variation, bionomic } (vacant).
7. Variation, mutational }
8. Evolution 9
9. Relations to other phyla (vacant).
10. Phylogeny 9

PAGE

Distribution = 1027 :—

A. Geographical—

i. General 9
ii. Atlantic Ocean, etc. 9
iii. Indian Ocean, etc. 10
iv. Pacific Ocean, etc. 10
v. Arctic Ocean, etc. .. } (vacant).
vi. Antarctic Ocean, etc. }
vii. Malaysia 10

B. Geological—

i. General (vacant).
ii. Cainozoic—
(a) General 10
(b) Pleistocene 10
(c) Pliocene 10
(d) Miocene 10
(e) Oligocene (vacant).
(f) Eocene 10

iii. Mesozoic—
(a) General 10
(b) Cretaceous (1. Upper; 2. Lower) 10
(c) Jurassic (1. Upper (vacant); 2. Lower) .. 10
(d) Lias (and Rhaetic) 10
(e) Trias (vacant)

iv. Palaeozoic—
(a) General (vacant).
(b) Permian 10
(c) Permo-Carboniferous 10
(d) Upper Carboniferous 10
(e) Lower Carboniferous 10
(f) Devonian 10
(g) Silurian 10
(h) Ordovician.. 10
(k) Cambrian 10

III. SYSTEMATIC INDEX = 1031 :—

A. General 10
B. Holothurioidea 10
C. Echinoidea 11
D. Asteroidea 11
E. Ophiuroidea 13
F. Crinoidea 14
G. Cystidea and Edrioasteroidea 16
H. Blastoidea } (vacant).
K. Incertae sedis }

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II.—SUBJECT INDEX.

N.B.—*The number in Clarendon type quoted after the author's name, in the Subject and Systematic Indices, refers to "Titles," where a fuller reference will be found.*

GENERAL. **1003**

1. Historical.

Cayeux, 12; Delgado y Núñez, 24.

2. General Treatises and Monographs.

Clark, 16; Fisher, 30 & 31; Koehler, 54; Wanner, 87.

5. Museums.

Hartmeyer, 42; Melvill, 66; Schuchert, 76.

6. Technique.

Just, 50 & 51.

7. Nomenclature.

Delgado y Núñez, 24; Hawkins, 43.

8. Local Lists.

Dunbar, 25a

STRUCTURE. 1007

1. General accounts.
Bather, 2; Cayeux, 12; Delgado y Núñez, 24; Hawkins, 43; Springer, 82.

3. Homologies of Classes.
Delgado y Núñez, 24; Schuchert, 76.

4. Skeletal Tissue or Stereom.
Cayeux, 12.

5. Skeletal Anatomy.
Cayeux, 12; Delgado y Núñez, 24; Hawkins, 43; Schuchert, 76.

6. Hydrocoel, Respiratory Organs, etc.
Lastotschkin, 59.

8. Digestive System, Cuvierian organs.
Delgado y Núñez, 24.

9. Nervous System and Sense-organs.
Delgado y Núñez, 24.

PHYSIOLOGY. 1011

2. Circulation.
Théel, 83a & 83b.

4. Alimentation.
Crozier, 21.

7. Experimental.
Foà, 32; Herlant, 45; Lastotschkin, 59; Théel, 83a & 83b.

DEVELOPMENT. 1015

4. Oviposition, etc.
Foà, 32; Garrey, 37; Guthrie & Hibbard, 41; Herlant, 45 & 46; Just, 49, 50 & 51; Lillie, 61a; Loeb, 63 & 64; Painter, 71a; Woodward, 92.

5. Larval stages.
Cleve-Euler, 18.

8. Experimental Embryology.
Garrey, 37; Herlant, 46; Just, 50; Lillie, 61a; Loeb, 63 & 64; Painter, 71a; Woodwatd, 92.

ETHOLOGY. 1019

2. Special habits.
Calman, 11; Fraser, 35.

3. Habitat.
Hawkins, 43; Huntsman, 48; Schuchert, 76.

4. Feeding.
Crozier, 21.

5. Defence and Protection.
Mortensen, 68.

6. Locomotion.
Russell, 74.

7. Autotomy and Regeneration.
Crozier, 20; Křiženecký, 56.

8. Parasites and Commensals.
Bather, 3; Shoemaker, 77.

12. Geological aspect.
Cayeux, 12; Dunbar, 25a; Schuchert, 76.

15. Echinoderms as food.
Hornell, 47.

VARIATION AND ÆTIOLOGY. 1023

2. Variation in colour.
Delgado y Núñez, 24.

5. Variation, teratological.
Zirpolo, 93 & 94.

8. Evolution.
Bather, 2; Hawkins, 43; Schuchert, 76.

10. Phylogeny.
Bather, 2; Hawkins, 43; Schuchert, 76.

DISTRIBUTION. 1027

A. GEOGRAPHICAL.

i. General.
Cayeux, 12; Hartmeyer, 42.

ii. Atlantic Ocean, etc.
Bosca Seytre, 9; Chumley, 13; Clark, 16; Cleve-Euler, 18; Cross, 19; Grieg, 39; Herdman, 44; Koehler, 54.

iii. Indian Ocean.
Erwe, 26; Gravely, 38.

iv. Pacific Ocean, etc.
Fisher, 30 & 31; Gislén, 37a.

vii. Malaysia.
Fisher, 30.

B. Geological.

ii. Cainozoic.

a. General.
Cisneros, Jiménez de, 15; Nomland, 69; Walkom, 86.

b. Pleistocene.
Bell, 8; Kaldhol, 52; Nordhagen, 70.

c. Pliocene.
Cisneros, Jiménez de, 14; Moody, 67.

d. Miocene.
Cisneros, Jiménez de, 14; Dalloni, 22; Daus, 23; Ficheur, 28; Llueca, 62.

f Eocene.
Bourcart, 10; Kindelan, 52a; Oppenheim, 71.

iii. Mesozoic.

a. General.
Palacios, 71b.

b. Cretaceous.

1. Upper Cretaceous
Cisneros, Jiménez de, 15; Dowling, 25; Guébhard, Lambert & Repelin, 40; Hawkins, 43; Kindelan, 52a; Lambert, 58; Wiman, 91.

2. Lower Cretaceous.
Cisneros, Jiménez de, 15; Fucini, 36; Hawkins, 43.

c. Jurassic.

2. Lower Jurassic.
Kitchen, 53; Krenkel, 55; Schäfer, 75; Trauth, 85.

d. Lias (and Rhaetic).
Lambert, 57; Mariani, 65; Schäfer, 75; Spitz, 81.

iv. Palaeozoic.

b. Permian.
Wanner, 87.

c. Permo-Carboniferous.
Bather, 4; Bell, 1; Lees, 60.

d. Upper Carboniferous.
Smith, 78, 79 & 80.

e. Lower Carboniferous.
Bather, 3, 4 & 5; Lees & Thomas, 61.

f. Devonian.
Bather, 7; Dunbar, 25a; Fenton, 27; Wanner, 88 & 89.

g. Silurian.
Bather, 3; Foerste, 33 & 34; Springer, 82 & 83; Thomas, 84; Williams, 90.

h. Ordovician.
Bather, 3; Clark, 17; Field, 29; Foerste, 33.

k. Cambrian.
Schuchert, 76.

III. SYSTEMATIC INDEX. 1031

A. Général.

Echinoderma, Cayeux 12.

†*Echinoderma*, Cayeux 12.

B. Holothuroidea.

Cucumaria, Chumley 13.

Holothuria with *H. sucosa* sp. n. Red Sea, Erwe Berlin Mitt. zool. Mus. 9 pp. 182–186.—*H.*, Chumley 13.—*H.*, Guthrie & Hibbard 41.

Mülleria, Erwe 26.

Phyllophorus, Erwe 26.

Psolus, Chumley 13.

Stichopus, Crozier 21.—*S.*, Erwe 26.

Synapta, Chumley 13.—*S.*, Erwe 26.—*S.*, Guthrie & Hibbard 41.

Synaptidae, Lastotschkin 59.

Thyone, Chumley 13.—*T.*, Erwe 26.

Thyonidium, Chumley 13.

C. ECHINOIDEA.

Amphidotus, CHUMLEY **13**.

†*Archaeocidaris*, SMITH **78**.

Arbacia, GARREY **37**.—*A.*, JUST **50**.—*A.*, KOEHLER **54**.—*A.*, WOODWARD **92**.

Arbaciella, KOEHLER **54**.

Brissopsis lyrifer, THÉEL **83b**.—*B.*, CHUMLEY **13**

Centrechinus antillarum, DELGADO Y NÚÑEZ **24**.

Cidaris, GUTHRIE & HIBBARD **41**.—*C.*, KOEHLER **54**.

†*Cidaris gervillei*, Sor., LAMBERT **57**.—*C., psilonoti* SCHÄFER **75**.

Clypeaster, KOEHLER **54**.

†*Clypeaster*, DAUS **23**.

†*Conulus*, HAWKINS **43**.

†*Coptodiscus mengaudi*, LAMBERT **58**.

Diadema, KOEHLER **54**.

†*Diademopsis* with *D. ucelensis* **sp. n.** Lias France, LAMBERT Bull. Soc. Étude Sci. Nat. Nimes **1914–1917** p. 119.

Dorocidaris, KOEHLER **54**.—*D.*, KŘÍŽENECKÝ **56**.

Echinarachnius parma, JUST **49**, **50** & **51**.

Echinocardium cordatum, THÉEL **83b**.—*E.*, CHUMLEY **13**.—*E.*, GUTHRIE & HIBBARD **41**.

Echinocyamus, CHUMLEY **13**.

Echinoidea, GRAVELY **38**.

†*Echinoidea*, FENTON **27**.—*E.*, KITCHIN **53**.—*E.*, LILLIE **61a**.

†*Echinolampas*, DAUS **23**.

Echinometra, KOEHLER **54**.

†*Echinonëus*, HAWKINS **43**.

Echinus esculentus, THÉEL **83b**.—*E.*, CHUMLEY **13**.—*E.*, GUTHRIE & HIBBARD **41**.—*E.*, KŘÍŽENECKÝ **56**.

†*Echinus norvegicus*, BELL **8**.

†*Epiaster guebhardi* [**sp. n.**] Upper Cretaceous France, LAMBERT IN GUÉBHARD, LAMBERT & REPELIN Notes Provençales **6** p. 5.

Eucidaris, KOEHLER **54**.

†*Globator*, HAWKINS **43**.

†*Hemiaster humphreysianus* fig., DOWLING Canada Dept. Mines geol. Surv. **93** pl. xxxv.

†*Holectypus*, KRENKEL **55**.

Laganum, KOEHLER **54**.

Mellita, CROZIER **20**.

Meoma, KOEHLER **54**.

Metalia, KOEHLER **54**.

†*Miocidaris lorioli*, LAMBERT **57**.

†*Nucleolites*, CISNEROS, JIMÉNEZ DE **14**.

†*Palaeopedina*, LAMBERT **57**.

Paleolampas, KOEHLER **54**.

Paracentrotus, HERLANT **45**.—*P.*, KOEHLER **54**.

Parechinus miliaris, THÉEL **83b**.

†*Periaster* with *P. esclaponensis* **sp. n.** Upper Cretaceous France, LAMBERT Notes Provençales **6** p. 8 pl. iii.

Psammechinus, KŘÍŽENECKÝ **56**.

†*Pyrina*, HAWKINS **43**.

Rhabdobryssus, KOEHLER **54**.

Rotula, KOEHLER **54**.

Spatangus purpureus, THÉEL **83b**.—*S.*, CHUMLEY **13**.

Strongylocentrotus lividus, DELGADO Y NÚÑEZ **24**.—*S. l.*, FOÀ **32**.—*S.*, GUTHRIE & HIBBARD **41**.—*S.*, KŘÍŽENECKÝ **56**.

†*Strongylocentrotus*, MOODY **67**.

†*Togocyamus* **subgen. n.** (*Echinocyamus*) and *T. seefriedi* **sp. n.** Eocene Togoland, OPPENHEIM Beitr, geol. Deutsch. Schutzgebiete **12** 1915 p. 20 pl. i figs, 10–13.

Toxopneustes variegatus, GUTHRIE & HIBBARD **41**.

Tripneustes, KOEHLER **54**.

D. ASTEROIDEA.

Acanthaster, FISHER **30**.

Anseropoda, FISHER **30**.

Anthenoides, FISHER **30**.

Anthosticte, FISHER **30**.

Aphroditaster, FISHER **30**.

Archaster, FISHER **30**.

Asterias rubens, THÉEL **83a** & **83b**. —*A.*, CHUMLEY **13**.—*A.*, GARREY **37**.—*A.*, GUTHRIE & HIBBARD **41**.—*A.*, KOEHLER **54**.—*A.*, WOODWARD **92**.

†*Asterias*, SCHÄFER **75**.

Asterina gibbosa, RUSSELL **74**.—*A.*, CHUMLEY **13**.—*A.*, FISHER **30**.—*A.*, GUTHRIE & HIBBARD **41**.—*A.*, KOEHLER **54**.

Asterinopsis, FISHER **30**.

Asterodiscus, FISHER **30**.

Asteroidea, GRIEG **39**.

Asterostephane, FISHER **30**.

Astroceramus, FISHER **30**.

Astromesites, FISHER **30**.

Astropecten with *A. vappa inaequalis*, *A. eucnemis* **subsp.** & **sp. n.** Philippine Seas, FISHER Washington Nation. Mus. Bul. **100** pp. 62–89 [*A. v. i.* at p. 69; *A. e.* at p. 75 pls. x fig. 1; xiv figs. 3–3a–d.].—*A.* with *A. Hupferi*, *michaelseni mamillatus*, *liberiensis* **spp. n.** W. Africa, KOEHLER Beitr. Kennt. Meeresfauna West Af. Lfg. **2** pp. 138–163 268 pls. iv v vi.—*A. aurantiacum*, ZIRPOLO **94**.

Astrothauma, FISHER **30**.

Atelorias, FISHER **30**.

Beuthogenia, FISHER **30**.

Benthopecten, FISHER **30**.

Brisinga, FISHER **30**.

Brisingella, FISHER **30**.

Brisingenes with *B. anchista* **sp. n.** Philippines, FISHER Washington Nation. Mus. Bul. **100** pp. 517–521 [*B. a.* at p. 521 pls. cxlvi; cliii figs. 3–3a–d; cliv fig. 4].

Bunaster, FISHER **30**.

Bythiolophus, FISHER **30**.

Calliaster, FISHER **30**.

Ceramaster, FISHER **30**.

Chaetaster, KOEHLER **54**.

Cheiraster, FISHER **30**.

Choriaster, FISHER **30**.

Cnemidaster, FISHER **30**.

Coronaster, FISHER **30**.

Craspidaster, FISHER **30**.

Craterobrisinga with *C. analoga* **sp. n.** Philippines, FISHER Washington Nation. Mus. Bul. **100** pp. 512–516 [*C. a.* at p 516 pls. cxlviii figs. 7 8; cxlix fig. 1].

Cribrella, CHUMLEY **13**.—*C.*, GUTHRIE & HIBBARD **41**.—*C.*, KOEHLER **54**.

Crossaster, CHUMLEY **13**.—*C.*, FISHER **30**.

Ctenodiscus, FISHER **30**.

Ctenophoraster, FISHER **30**.

Ctenopleura, FISHER **30**.

Culcita, FISHER **30**.

Diplopteraster, FISHER **30**.

Dipsacaster, FISHER **30**.

Dissogenes, FISHER **30**.

Distolasterias, FISHER **30**.

Echinaster, FISHER **30**.

Ferdina, FISHER **30**.

Freyellaster, FISHER **30**.

Fromia, FISHER **30**.

Goniaster, KOEHLER **54**.

Goniodisaster, FISHER **30**.

Goniopecten, FISHER **30**.

Halityle, FISHER **30**.

Henricia, FISHER **30**.

Hymenaster, FISHER **30**.

Hymenasterides, FISHER **30**.

Iconaster, FISHER **30**.

Koremaster with *K. evaulus spiculatus* **subsp. n.** Philippines, FISHER Washington Nation. Mus. Bul. **100** pp. 157–161 [*K. e. s.* at p. 161 pls. xxxiii fig. 1; xxxiv fig. 1; xl figs. 3–3a–f].

Leiaster, FISHER **30**.

Linckia, FISHER **30**.—*L.*, KOEHLER **54**.

Lithosoma, FISHER **30**.

Lophaster, FISHER **30**.

Luidia, CHUMLEY **13**.—*L.*, FISHER **30**.—*L.*, KOEHLER **54**.

Marginaster, FISHER **30**.

Mediaster, FISHER **30**.

†*Mesopaleaster* (*Hemipaleaster*) *schucherti* **sp. n.** Silurian Ohio, FOERSTE Bul. sci. Lab. Denison Univ. **19** pp. 22–26 pls. iv v.

Metrodira, FISHER **30.**

Myxaster, FISHER **30.**

Myxoderma sacculatum ectenes, California; *platyacanthum rhomaleum*, Oregon subspp. n., FISHER Ann. Mag. Nat. Hist. **13** pp. 392–393.

Nardoa, FISHER **30.**

Nepanthia, FISHER **30.**

Nymphaster, FISHER **30.**

Odinia, FISHER **30.**

Ophidiaster, FISHER **30.**—*O.*, KOEHLER **54.**

Oreaster, FISHER **30.**

Othilia, FISHER **30.**

Palmipes, CHUMLEY **13.**

Paragonaster, FISHER **30.**

Paranepanthia, FISHER **30.**

Patagiaster, FISHER **30.**

Patiria, KOEHLER **54.**

Patiriella, FISHER **30.**

Pectinaster with *P. minicus palawanensis* **subsp. n.** Philippines, FISHER Washington Nation. Mus. Bul. **100** pp. 182–187 [*P. m. p.* at p. 185 pls. lii fig. 3; liv figs. 2 2a].

Pedicellaster, FISHER **30.**

Peltaster, FISHER **30.**

Pentaceropsis, FISHER **30.**

Pentaceros, KOEHLER **54.**

Perissogonaster, FISHER **30.**

Persephonaster with *P. euryactis brevispinus* **subsp. n.** Philippine Seas, FISHER Washington Nation. Mus. Bul. **100** pp. 111–134 [*P. e. b.* at p. 115 pls. xxiv fig. 2; xxv fig. 3; xxx fig. 2; xxxii figs. 2 2a].

Pholidaster, FISHER **30.**

Plutonaster, KOEHLER **54.**

Pontioceramus, FISHER **30.**

Porania, CHUMLEY **13.**

Prionaster, FISHER **30.**

Pseudarchaster, FISHER **30.**

Psilaster, FISHER **30.**

Pteraster, FISHER **30.**

Radiaster, FISHER **30.**

Retaster, FISHER **30.**

Rosaster, FISHER **30.**

†*Schuchertia magna* **sp. n.** Silurian Ohio, FOERSTE Bul. Sci. Lab. Denison Univ. **19** pp. 26–28 pl. vi fig. 1.

Sidonaster, FISHER **30.**

Solaster, CHUMLEY **13.**—*S.* FISHER **30.**—*S.*, GUTHRIE & HIBBARD **41.**

Sphaeriodiscus, FISHER **30.**

Stegnobrisinga, FISHER **30.**

Stellaster, FISHER **30.**

†*Stereoaster squamosus* **sp. n.** Silurian Ohio, FOERSTE Bul. Sci. Lab. Denison Univ. **19** p. 28 pl. vii figs. 2 a–c.—*S.*, FOERSTE **33.**

Tarachaster, FISHER **30.**

Tarsaster, FISHER **30.**

Tritonaster, FISHER **30.**

Xenorias, FISHER **30.**

Zoroaster with *Z. actinocles*, Aleutian Isds.; *evermanni mordax* California **sp. & subsp. n.**, FISHER Ann. Mag. Nat. Hist. **3** pp. 390–391.—*Z.*, FISHER **30.**

E. OPHIUROIDEA.

Amphiocnida semisquamata **sp. n.** W. Africa, KOEHLER Beitr. Kennt. Meeresfauna W. Af. Lfg. **2** p. 187 pl. viii figs. 17 19.

Amphiodia acutispina, cincta **spp. n.** W. Africa, KOEHLER Beitr. Kennt. Meeresfauna W. Af. Lfg. **2** pp. 195–197 pls. vii viii.

Amphioplus with *A. occidentalis* **sp. n.** W. Africa, KOEHLER Beitr. Kennt. Meeresfauna W. Af. Lfg. **2** p. 199 pl. vii.

Amphipholis with *A. clypeata, nudipora*, **spp. n.** W. Africa, KOEHLER Beitr. Kennt. Meeresfauna W. Af. Lfg. **2** pp. 191–194 pls. vii viii.

Amphiura, CHUMLEY **13.**—*A.*, KOEHLER **54.**

Ophiarachnella africana **sp. n.** W. Africa, KOEHLER Beitr. Kennt. Meeresfauna W. Af. Lfg. **2** p. 178 pl. ix figs. 8 9 17.

Ophiactia, KOEHLER **54.**

Ophiocnida, CHUMLEY **13.**—*O.*, KOEHLER **54.**

Ophiocoma, CHUMLEY **13.**—*O.*, KOEHLER **54.**

Ophioderma, KOEHLER **54.**

Ohpioglypha lacertosa, ZIRPOLO **93.**—*O.*, CHUMLEY **13.**—*O.*, KOEHLER **54.**

Ophiolepis, KOEHLER **54.**

Ophiopholis, CHUMLEY **13.**

Ophiopsila guinensis, platispina **spp. n.** W. Africa, KOEHLER Beitr. Kennt. Meeresfauna W. Af. Lfg. **2** pp. 203–206 pl. viii.

Ophioteron atlanticum **sp. n.** W. Africa, KOEHLER Beitr. Kennt. Meeresfauna W. Af. Lfg. **2** p. 212 pl. x.

Ophiothrix with *O. tomentosa* **sp. n.** W. Africa, KOEHLER Beitr. Kennt. Meeresfauna W. Af. Lfg. **2** pp. 208–210 270 pl. x.—*O.*, CHUMLEY **13.**—*O.*, GUTHRIE & HIBBARD **41.**

Ophiura, GUTHRIE & HIBBARD **41.**

F. CRINOIDEA.

†*Actinocrinidae*, WANNER **87.**

†*Agariocrinus*, BATHER **3.**

Amphimetra, HARTMEYER **42.**

Antedon, CHUMLEY **13.**—*A.*, CLARK **16.**—*A.*, GUTHRIE & HIBBARD **41.**—*A.*, HARTMEYER **42.**

†*Archaeocrinus*, FOERSTE **33.**

†*Basleocrinus* **gen. n.** *B. conicus, B. ? kukaensis* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 214–217 pl. cix.

†*Batocrinidae*, WANNER **87.**

†*Batocrininae*, WANNER **87.**

†*Bolbocrinus* **gen. n.** with *B. hieroglyphicus tuberculatus, rex, waldthauseniae w.* var. *basleensis, pusillus, irregularis*, **spp. & var. n.** Permian Timor, WANNER Pal. Timor **6** pp. 115–125 pls. ci cii.

†*Botryocrinus*, BATHER **3.**—*B.*, FOERSTE **34.**

†*Bursacrinus magnificus, procerus, pyramidatus* **spp. n.** Permian Timor, WANNER **6** pp. 177–184 pl. cvi.

†*Calycocrinus* **gen. n.** *C. curvatus, spinosus, malaianus, major, poculum, coronatus, turbinatus, kupangensis, amarassicus, granulatus, crassus* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 260–272 pls. cx cxi.

†*Camarocrinus* **fig.**, DUNBAR Bull. Geol Surv. Tennessee **21** p. 49 fig. 10.—*C.*, SPRINGER **82.**

Campsometra, HARTMEYER **42.**

Capillaster, HARTMEYER **42.**

†*Carneyella raymondi* **sp. n.** Ordovician U.S.A., CLARK Bul. Mus. Comp. Zool. Harvard **63** p. 11 pl. i figs. 18 19.

Cenometra, HARTMEYER **42.**

†*Ceriocrinus*, SMITH **78** & **79.**

†*Cheirocrinus*, CLARK **17.**

†*Cibolocrinus* with *C. transitorius, minimus, propinquus* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 206–213 pls. ciii–cvii.

†*Clidochirus* with *C. ulrichi* **sp. n.** Silurian Ohio, FOERSTE Bul. Sci. Lab. Denison Univ. **19** pp. 15–19 [*C. u.* at p. 17 pl. ii figs. 1 a–b].

Colobometra, HARTMEYER **42.**

Comactinia, HARTMEYER **42.**

Comantheria, HARTMEYER **42.**

Comanthina, HARTMEYER **42.**

Comanthus, HARTMEYER **42.**

Comaster, HARTMEYER **42.**

Comatella, HARTMEYER **42.**

Comatula, HARTMEYER **42.**

Comatulella, HARTMEYER **42.**

Comissia, HARTMEYER **42.**

†*Crinoidea*, BALL **1.**—*C.*, BELL **8.**—*C.*, GISLÉN **37a.**—*C.*, KITCHIN **53.**—*C.*, LEES **60.**—*C.*, LEES & THOMAS **61.**—*C.*, SMITH **80.**—*C.*, WALKOM **86.**

†*Cromyocrinus*, BATHER **5.**

†*Cupressocrinites*, BATHER **5.**

†*Cupressocrinus gibber* **sp. n.** Devonian Belgium, BATHER Bull. Soc. Belge Geol. **28** pp. 129–136.

†*Cyathocrinus*, BATHER **5.**

†*Cydonocrinus turbinatus* **sp. n.** Permian Timor, WANNER Pal. Timor **6** p. 109 pl. c.i.

Decametra, HARTMEYER **42.**

Dichrometra, HARTMEYER **42.**

†*Dimerocrinus* (?) *vagans* **sp. n.** Silurian Ohio, FOERSTE Bul. Sci. Lab. Denison Univ. **19** p. 13 pl. ii figs. 6 a–e.

†*Dinocrinus* **gen. n.** with *D. cornutus* **sp. n.** Permian Timor, WANNER Pal. Timor **6** p. 313 pls. xcvi xcvii.

†*Dolocrinus* with *D. depressus, beyrichi, b.* var. *nustoiensis, verbecki, v.* varr. *vermistriata, levis, pumila, D. rugosus, expansus, excavatissimus, rotundatus, D.? malaianus* **spp.** & **varr. n.** Permian Timor, WANNER Pal. Timor **6** pp. 187–202 pls. cvii cviii cix.

†*Ediocrinus pyramidatus* (Springer M. S.), *E. adnascens* Dun. **fig.**, DUNBAR Bull. Geol. Surv. Tennessee **21** p. 61 figs. 10 15.

†*Eifelocrinus* **nom. n.** for *Ptilocrinus*, Wanner (*nec* Clark), WANNER Zs. D. geol. Ges. **68** p. 360.

†*Embryocrinus* **gen. n.** *E. hanieli, sulcatus* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 130–141 pl. cxi.

†*Erisocrinus obliquus* **sp. n.** Permian Timor, WANNER Pal. Timor **6** p. 225 pl. ciii.—*E.*, SMITH **79.**

†*Eucheirocrinus ontario* **sp. n.** Silurian Canada, SPRINGER Canada Dept. Mines Geol. Surv. Mem. **111** 1919 p. 127.

†*Eupachycrinus*, BATHER **5.**—*E.*, SMITH **78** & **79.**

†*Eutelecrinus* **gen. n.** *E. piriformis, poculiformis, elongatus, erectus, mangostanus, inflatus, welteri* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 23–30 pl. xcviii.

†*Graphiocrinus timoricus, exornatus, quinquelobus, G.? indicus* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp 166–175 pls civ cvi.

Hathrometra, HARTMEYER **42.**

Heliometra, HARTMEYER **42.**

†*Hexacrinidae*, WANNER **87.**

†*Holocystites*, BATHER **3.**

†*Hydreionocrinus verrucosus* **sp. n.** Middle Carboniferous Isle of Man, BATHER Glasgow Trans. Geol. Soc. **16** **1917–17** p. 203.—*H.* with *H. variabilis, amarassicus* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 150 165 pls. civ cv.—*H.*, SMITH **78** & **79.**

Hypocrinidæ, WANNER **87.**

Indocrinus **gen. n.** *I. elegans, crassus, nodosus, rimosus* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 74–86 pl. ciii.

Iridometra melpomene, SHOEMAKER **77.**—*I.*, HARTMEYER **42.**

Isocrinus, HARTMEYER **42.**

†*Lepadiocrinus* **gen. n.** *L. granulatus, g.* var. *labiosa, L. brouweri, mamillaris,* **spp.** & **var. n.** Permian Timor, WANNER Pal. Timor **6** pp. 227–232 pls. cvi cix.

†*Loxocrinus* **gen. n.** *L. globulus, g.* var. *dilatata* **sp.** & **var. n.** Permian Timor, WANNER Pal. Timor **6** pp. 251–256 pl. cx.

†*Melocrinus*, FENTON **27.**

Metacrinus, HARTMEYER **42.**

†*Millericrinus*, SCHÄFER **75.**

†*Mollocrinus* **gen. n.** *M. poculum, ornatissimus* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 67–70 pl. ci.

†*Monobrachiocrinus* **gen. n.** *M. faciformis, M. f.* var. *elongata* **sp.** & **var. n.** Permian Timor, WANNER Pal. Timor **6** pp. 103–108 pl. cii.

†*Monocyclica camerata*, Bather, WANNER **87.**

†*Myelodactylus* (*Eomyelodactylus*) *rotundatus* **subgen.** & **sp. n.** Silurian Ohio, FOERSTE Bul. Sci. Lab. Denison Univ. **19** pp. 19–21 pls. i fig. 8; ii. fig. 3.

†*Neoplatycrinus dilatatus, major, somoholensis, transitorius* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 32–43 pls. xcviii xcix.

Oligometra, HARTMEYER **42.**

†*Palaeoholopus* **gen. n.** *P. pretiosus* **sp. n.** Permian Timor, WANNER Pal. Timor **6** p. 279 pl. cxi.

†*Paracatillocrinus* **gen. n.** *P. granulatus, spinosus, ellipticus,* **spp. n.**, Permian Timor, WANNER Pal. Timor **6** pp. 6–14 pl. xcvi.

†*Patelliocrinus*, FOERSTE **33.**

†*Pentacrinus*, KRENKEL **55.**—*P.*, SCHÄFER **75.**—*P.*, SPITZ **81.**

†*Peripterocrinus* **nom. n.** for *Thalassocrinus* Wanner (*nec* Clark), WANNER Zs. D. geol. Ges. **68** p. 360.

†*Petalocrinus mirabilis* Waller, THOMAS **84.**

†*Pisocrinus*, BATHER **5.**—*P.*, THOMAS **84.**

†*Platycrinus* with *P. wachmuthi* **sp. n.** Permian Timor, WANNER Pal. Timor **6** p. 53 pl. xcvii.

†*Pleurocrinus* with *P. spectabilis, pusillus, depressus, goldfussi, globosus* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 45–52 pls. xcvii xcix c.

†*Poteriocrinidae*, WANNER **87.**

†*Poteriocrinus malaianus* **sp. n.** Permian Timor, WANNER Pal. Timor **6** p. 142 pl. civ.—*P.*, BATHER **5.**

†*Prophyllocrinus* **gen. n.** *P. dentatus, cuspidatus* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 273–278 pl. cxi.

†*Ptilocrinus dohmi* **gen. & sp. n.** Lower Devon. Germany, WANNER Zs. D. geol. Ges. **68** p. 344 pl. xxviii.

Ptilometra, HARTMEYER **42.**

†*Pycnosaccus*, FOERSTE **33.**

†*Rhodocrinidae*, FOERSTE **33.**

†*Roemerocrinus* **gen. n.** *R. gracilis* **sp. n.** Permian Timor, WANNER Pal. Timor **6** p. 205 pl. cviii.

†*Scyphocrinus* with *S. spinifer, mutabilis pyburnensis, ulrichi, gibbosus* **spp. n.** Silurian N. America, SPRINGER Washington Smiths. Inst. Publ. **2440** pp. 46 47 52 54 55 pls. vi–ix.—*S.*, DUNBAR **25a.**

Selenemetra, HARTMEYER **42.**

†*Stachyocrinus* **gen. n.** *S. zea* **sp. n.** Permian Timor, WANNER Pal. Timor **6** p. 233 pl. cvi.

Stephanometra, HARTMEYER **42.**

†*Strongylocrinus molengraffi* **sp. n.** Permian Timor, WANNER Pal. Timor **6** p. 72 pl. ci.

†*Sundacrinus* **gen. n.** *S. granulatus* **sp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 219–220 pl. cvi.

†*Sycocrinus*, WANNER **87.**

†*Symbathocrinus* with *S. campanulatus* & varr. *inflata, elongata, S. constrictus, sinuosus* **spp. & varr. n.** Permian Timor, WANNER Pal. Timor **6** pp. 15–22 pl. xcvi.

†*Syntomocrinus* **gen. n.** *S. sundaicus* **sp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 256–257 pl. cx.

†*Thalassocrinus* **gen. n.** *T. gracilis* **sp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 311 pl. cxi.

†*Thetidicrinus* **gen. n.** *T. piriformis* **sp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 111–112 pl. cii.

†*Timorocrinus* with *T. alatus, a.* var. *major, T. spinosus, s.* var. *pentagonalis, s.* var. *amarassica, s.* var. *informis, s.* var, *incissa, decurtatus, proboscidens* **spp. & varr. n.** Permian Timor, WANNER Pal. Timor **6** pp. 298–310 pls. cxii cxiii cxiv cix.

†*Trimerocrinus* **gen. n.** *T. pumilius, ventriosus* **spp. n.** Permian Timor, WANNER Pal. Timor **6** pp. 143–146 pl. civ.

Tropiometra, CLARK **16.**—*T.*, HARTMEYER **42.**

†*Ulocrinus*, BATHER **5.**

†*Zeacrinus ? sundaicus* **sp. n.** Permian Timor, WANNER Pal. Timor **6** p. 147 pl. ci.

Zygometra, HARTMEYER **42.**

G. CYSTIDEA & EDRIOASTEROIDEA.

†*Allocystites*, BATHER **2.**

†*Archegocystes*, BATHER **2.**

†*Aristocystes*, BATHER **2.**

†*Brockocystis nodosarius* **sp. n.** Silurian Ohio, FOERSTE Bul. Sci. Lab. Denison Univ. **19** p. 5 pl. i figs 1–5.

†*Calix*, BATHER **2.**

†*Cariocystites*, BATHER **2.**

†*Codiacystis*, BATHER **2.**

†*Hippocystis* **gen. n.**, BATHER London Geol. Mag. **6** pp. 71 72.

†*Holocystites*, BATHER **2.**

†*Lepadocystis*, FOERSTE **34.**

†*Megacystis*, BATHER **2.**

†*Ovocystis*, BATHER **6.**—*O.*, REED **72.**

†*Sinocystis*, BATHER **2** & **6.**—*S.*, REED **72** & **73.**

†*Stromatocystites* with *S. walcotti* **sp. n.** Lower Cambrian Newfoundland, SCHUCHERT Washington Smiths. Inst. Misc. Coll. **70** No. 1 pp. 1–8 pl. i figs. 1–4.

VI. VERMIDEA

ARRANGED BY

H. M. WOODCOCK.

CONTENTS

PAGE

TITLES (for all groups) 3

PLATYHELMINTHIA, NEMERTINEA, MESOZOA.

SUBJECT-INDEX :—

Comprehensive and General=1203 15
Structure=1207 16
Physiology=1211 16
Development=1215 16
Ethology=1219 16
Variation, Phylogeny=1223 17
Distribution (Geography)=1227 17

SYSTEMATIC=1231 :—

Platyhelminthia 17
Turbellaria 17
Trematoda 18
Cestoda 19
Nemertinea 19
Mesozoa 19

NEMATHELMINTHIA.

SUBJECT-INDEX :—

Comprehensive and General=1403 19
Structure=1407 20
Physiology=1411 20
Development=1415 20
Ethology=1419 21
Variation, Phylogeny=1423 21
Distribution (Geography)=1427 21

SYSTEMATIC=1431 :—

Nematoda 21
Nematomorpha (vacant).
Acanthocephala 24

CHAETOGNATHA, GASTROTRICHA, ROTIFERA.

PAGE

SUBJECT-INDEX :—

Comprehensive and General=1603 25
Structure=1607 25
Physiology=1611 25
Development=1615 25
Ethology=1619 25
Variation, Phylogeny=1623 25
Distribution (Geography)=1627 25

SYSTEMATIC=1631 :—

Chaetognatha 25
Gastrotricha 26
Rotifera 26

ANNELIDA, GEPHYREA, PHORONIDEA, PTEROBRANCHIATA.

SUBJECT-INDEX :—

Comprehensive and General=1803 26
Structure=1807 26
Physiology=1811 26
Development=1815 27
Ethology=1819 27
Variation, Phylogeny=1823 27
Distribution (Geography)=1827 27

SYSTEMATIC=1831 :—

Annelida 27
Archiannelida (vacant).
Polychaeta 27
Myzostomida 34
Oligochaeta 34
Hirudinea 35
Echiuroidea 35
Gephyrea 35
Phoronidea 35
Pterobranchiata 35

I.—TITLES.

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Yorke, W. and **Macfie,** J. W. *Strongylidae* in horses. VII. *Cylicostomum pateratum* sp. n. Ann. trop. Med. Parasitol. Liverpool **13** 1919 (57–62). **296**

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PLATYHELMINTHIA, NEMERTINEA, MESOZOA.

SUBJECT INDEX.

COMPREHENSIVE AND GENERAL. **1203**

Bibliography.
Boulenger, 24; Dunkerly, 63.

Books, Reviews.
Chandler, 36.

Controversial.
Janicki, 126.

Economics.

RELATION TO DISEASE.

TREMATODA :—

Goddard, 102 ; Surveyor, 258.

Bilharziosis : Christopherson, 38 & 39 ; Fairley, 69 ; Lutz, 161.

CESTODA :—

Echinococcosis : Blanc, 23 ; Devé, 58 ; Faltin, 70 ; Henry & Ciuca, 111 ; Mouquet, 183 ; Tenhaeff & Ferwerda, 262.

Miscellaneous.

EXPERIMENTAL INFECTION :—

Lopez-Neyra & Munoz-Medina, 160.

TECHNIQUE :—

Cort, 49 ; Ellis, 68.

STRUCTURE. 1207

General Morphology.

TURBELLARIA :—

Lang, 150.

TREMATODA :—

Cohn, 45 ; Faust, 71–74 ; Goddard, 102 ; Jegen, 127 ; MacCallum, 162 ; Osborn, 192 ; Stunkard, 257.

CESTODA :—

Baylis, 16 ; Hall, 109 ; Joyeux, 136 ; Magalhaes, 164 ; Mouquet, 183 & 184 ; Railliet & Marullaz, 205 ; Turner, 271.

NEMERTINEA :—

Schröder, 226.

Reproductive Organs.

Baylis, 14.

Histology.

Martin, 168 ; Weimer, 283.

Cytology.

Pommer, 197 ; Prenant, 201 ; Young, 301.

PHYSIOLOGY. 1211

General.

Hyman, 120.

Excretory System.

Faust, 75.

Degeneration.

Young, 300.

Environmental Effects: Response to Stimuli.

Cort, 48 ; Goldsmith, 103 ; Kepner & Rich, 141 ; Moore, 182 ; Vandel, 274 ; Weimer, 283.

Effects of Reagents, etc.

Christopherson, 38 & 39.

DEVELOPMENT. 1215

General, Life-Cycle.

TREMATODA :—

Jegen, 127 ; Lutz, 161 ; Nakagawa, 187 ; Sewell, 235.

CESTODA :—

Baylis, 10 ; Lopez-Neyra & Munoz-Medina, 160 ; Nybelin, 189 ; Rosen, 215.

MESOZOA :—

Lameere, 146.

Regeneration.

Olmsted, 191.

Oogenesis, Embryology, etc.

Acconci, 1 ; Dollfus, 61.

Larval forms.

Kajava, 137 ; Rosen, 215.

ETHOLOGY. 1219

Bionomics, General Biology.

Crozier, 52 ; Elgood & Cherry, 65 ; Fairley, 69 ; Riley, 208 ; Vandel, 274.

Transmission.

Ackert, 2 ; Guberlet, 106 ; Kemp & Gravely, 140 ; Nybelin, 189 ; Rosen, 215 ; Soparkar, 243 ; Turkhud, 269.

Parasitism.

HOSTS.

General.

Johnston, 132 ; Lopez-Neyra, 159.

Annelida.

Caullery & Mesnil, 30.

Crustacea.

Nakagawa, 187; Osborn, 192.

Insecta.

Ackert, 2; Guberlet, 106.

Mollusca.

Boulenger, 24; Cawston, 31; Faust, 71 & 75; Lagrange, 145; Lutz, 161; Nakagawa, 187; Pratt, 200; Railliet, 203; Sewell, 235.

Pisces.

Faust, 72 & 73; Osborn, 192.

Reptilia.

Baylis, 16; Job, 129.

Aves.

Baylis, 11 & 12; Fuhrmann, 91; Jegen, 127; Johnston, 134; Lopez-Neyra, 158; Mola, 181; Travassos, 266.

Mammalia.

Baylis, 10; Blanc, 24; Faust, 74; Hall, 109; Johnston, 133; MacCallum, 162; Porter, 198; Railliet & Marullaz, 205; Schöppler, 224; Turner, 271.

VARIATION, PHYLOGENY.

1223

Variation.

Goddard, 102; Whitehouse, 288.

Phylogeny, classification.

Faust, 73; Hall, 109; Peebles, 194; Rosen, 215.

DISTRIBUTION (GEOGRAPHY).

1227

[*Vidè etiam* "Parasitism" 1219.]

Europe.

Peebles, 194; Vandel, 275; Wesenberg-Lund, 286.

Asia.

Kemp, 139; Schröder, 225; Whitehouse, 288.

Africa.

Léger, 153.

America.

Riley, 210.

Arctic.

Baylis, 12.

SYSTEMATIC. 1231

PLATYHELMINTHIA.

(*a*) Turbellaria.

Turbellaria, account of rhabdites; PRENANT Arch. Zool. exp. **58** pp. 219–250 pl. ix.

A Rhabdocoele, sp. indet., from *Haplosyllis armata*, described; CAULLERY & MESNIL Bull. Soc. Zool. **43** pp. 198–204 3 text-figs.

Amphiscolops fuligineus **sp. n.**, Gulf of Naples, described; PEEBLES Mitth. Zool. Stat. Neapel **22** p. 304 pl. x figs. 8–10 and text-figs. 9–12.

Bipalium andrewesi p. 33, pl. xi, figs. 21, 22, *sylvestre*, p. 37 figs. 35, 36, from Southern India, *brunneus*, p. 34, figs. 24–26, W. Himalayas, *splendens*, p. 36, figs. 29–31, E. Himalayas and Assam, *indica*, p. 39, figs. 42, 43, Bengal and Southern India, **spp. n.**, described; WHITEHOUSE Rec. Ind. Mus. **16**.

Cotyloplana nilgiriense **sp. n.** S. India, described, p. 34 pl. xi fig. 23; WHITEHOUSE Rec. Ind. Mus. **16**.

Dolichoplana procera v. Graff, p. 149 text-fig. 2, *mertoni* **sp. n.** p. 151 fig. 3, Aru Islands; SCHRÖDER Abh. Senckenb. Ges. **35**.

Monochoerus lineatus **sp. n.**, Gulf of Naples, described; PEEBLES Mitth. Zool. Stat. Neapel **22** p. 298 pl. x figs. 3–7 and text-figs. 5–8.

Pelmatoplana rotunda, p. 35, pl. xi fig. 27, W. Himalayas, *himalayense*, p. 37, figs. 32–34, E. Himalayas, *maculosa*, p. 38, figs. 37, 38, Ceylon, *striata*, p. 39, figs. 39–41, S. India **spp. n.**, described; WHITEHOUSE Rec. Ind. Mus. **16**.

(*b*) **Trematoda.**

Acanthatrium gen. n. (*Brachycoeliidae*) *nycteridis* **sp. n.**, from brown bat, diagnosed; FAUST Trans. Amer. Microsc. Soc. **38** pp. 209–215 pl. xx.

Anchitrema latum **sp. n.**, from *Chamaeleon dilepis* (Belg. Congo) described; GEDOELST C. R. Soc. Biol. **82** pp. 1250–1252 1 text-fig.

Aorchis vide Heronimus.

"*Cercariae*," diagnoses and hosts of unspecified forms, neighbourhood of Paris; LAGRANGE Bull. Soc. Path. exot. **12** pp. 383–388.—"*C.*" South African forms with their Molluscan hosts, notes on, "*C.*" *constricta* p. 169 pl. xviii fig. 7, *cawstoni* p. 171, fig. 9, "**spp. n.**"; FAUST J. Parasitol. **5**.—"*C.*" *convoluta* p. 315 text-figs. 1–4, *complexa* p. 334 fig. 2, *trifurcata* p. 335, fig. 5, *candelabra* p. 336, fig. 4, *furcicauda* p. 336, fig. 6, *robusticauda* p. 337, fig. 7, *quattuor-solenata* p. 337 fig. 8, *rhabdocaeca* p. 338 fig. 9, "**spp. n.**" Molluscan hosts and diagnoses; FAUST Biol. Bull. **36**.—"*C.*" *spatula* "**sp. n.**" diagnosed; FAUST T.c. pp. 340–344 3 text-figs.—"*C.*" *fusca* "**sp. n.**" from *Goniobasis livescens*, note on; PRATT J. Parasitol. **5** pp. 128–131 2 text-figs.—"*C.*" *indicae* from *Planorbis exustus* or *Limnaea amygdalum* Calcutta probably the larval form of *Schistosoma japonicum*, measurements and tabular comparison; SEWELL Rec. Ind. Mus. **16** pp. 425–429 1 pl.

Cladorchis gigas **sp. n.**, from African elephant, described; MACCALLUM Bull. Amer. Mus. Nat. Hist. **37** pp. 865–871 pls. cviii–cx.

Collyriclum faba (Bremser) Kossack, detailed account of anatomy, development, affinities and Avian hosts; JEGEN Zeitschr. wiss. Zool. **117** pp. 460–553 pls. xi & xii.

Crepidostomum illinoiense **sp. n.**, from *Pomoxis*, diagnosed; FAUST Trans. Amer. Microsc. Soc. **37** p. 191 pl. xv figs. 16–19.

Dicrocoeliidae from domestic animals, notes; TRAVASSOS Rev. vet. zootech. **8** pp. 3–15 6 text-figs.

Dissotrema papillatum Goto and Matsudaira synonymous with *Gyliauchen tacharodes* Nicoll, comparison of two forms; GOTO J. Parasitol. **6** pp. 44–47.

Epibdella steingröveri **sp. n.**, S.W. Africa, described; COHN Zeitschr. Wiss. Zool. **115** pp. 460–488 7 text-figs.

Fasciola (*Distomum*) *gigantea*, note on from sheep in Seistan, compared with *hepatica*; KEMP Rec. Ind. Mus. **18** pp. 62 & 63.

Fasciolopsis buski, parasitic in man, China, morphology, to include also species *F. rathouisi* and *goddardi*; GODDARD J. Parasitol. **5** pp. 141–163 pls. xii–xvii.

Gyliauchen, vide Dissotrema.

Heronimus chelydrae MacCallum (syn. *Aorchis extensus* Barker & Parsons) morphology, identity of two forms; STUNKARD J. Parasitol. **6** pp. 11–18 pls. ii & iii.

Liperosomum obliquum p. 6 fig. 2, *transversum* p. 7, fig. 3, *rarum* p. 7, fig. 4, *lari* p. 8 fig. 5, *sinuosum* p. 9 fig. 6, **spp. n.**, Avian hosts and diagnoses; TRAVASSOS Buenos Aires 1917.

Microphallus ovatus, from crayfish and black bass, described, *japonicus* for Yoshida's unnamed species, **spp. n.**; OSBORN J. Parasitol. **5** pp. 123–127 pl. x.

Notocotylus seineti **sp. n.**, from *Querquedula*, morphology described; FUHRMANN Rev. Suisse Zool. **27** p. 353 pl. v.

Paragonimus westermani, note on *Cercariae* in snails, encysted larvae in crabs; NAKAGAWA J. Parasitol. **6** pp. 39–43 2 text-figs.

Platynosomum arietis **sp. n.**, occurrence and diagnosis; TRAVASSOS Rev. vet. zootech. **8** p. 11 text-fig. 5.

Renifer sp. n. (unnamed, near to *ellipticus*), from *Zamenis constrictor*, diagnosed; JOB Proc. Iowa Acad. **24** p. 316.

Schistosomum mansoni in Brazil, notes on *Cercariae* and their biology; LUTZ Mem. Inst. Oswaldo Cruz **11** pp. 121–155 (translations, 109–140), pls. xxxvii–xliii.

Stephanophiala vitelloba **sp. n.**, from *Coregonus*, diagnosed; FAUST Trans. Amer. Micr. Soc. **37** p. 186 pl. xiv figs. 5–13.

Stephanophialinae, composition of group, classification of constituent members; FAUST T.c. pp. 183–198 pls. xiv & xv.

(c) **Cestoda.**

Cestodes of Sardinian birds, notes on; MOLA Arch. Parasitol. **16** pp. 557–578 pl. ix.

Aploparaksis murmanica **sp. n.,** diagnosed; BAYLIS Ann. Mag. Nat. Hist. Ser. 9 **3** p. 512 text-fig. 8.

Bertiella delafondi (Raill.) note on, from pigeon; JOHNSTON Mem. Queensland Mus. **6** p. 169 text-figs. 1–4.

Biuterina ugandae **sp. n.,** occurrence and diagnosis; BAYLIS Ann. Mag. Nat. Hist. Ser. 9 **3** p. 461 text-fig. 3.

Bothriocephalidae, account of development and life-cycle of different species, with special reference to larval forms; phylogeny; ROSEN Bull. Soc. Sci. nat. Neuchâtel **43** pp. 241–300 2 pls.

"*Cysticeroide*" *dipylidii chyzerii* p. 497, *dipylidii trinchesii* p. 502, **nom. nn.**; LOPEZ-NEYRA & MUNOZ-MEDINA Bol. Soc. espan. hist. nat. **19.**

Cysticercus pisiformis Leporis cuniculi L., note on; SCHÖPPLER Centralbl. Bakt. Abth. 1 **82** Orig. p. 468.—*C. taeniae grimaldii* Moniez, occurrence in *Lagenorhynchus acutus,* morphology, probably belonging to genus *Monorygma*; BAYLIS Ann. Mag. Nat. Hist. Ser. 9 **3** pp. 417–424 3 text-figs.

Davainea bothrioplitis (Piana), description; MAGALHAES Arch. Parasitol. **16** pp. 481–502 7 text-figs.—*D. debilis* p. 462 text-fig. 4, *vaganda* p. 464 fig. 5. *bycanistis* p. 465 fig. 6, **spp. n.** hosts and diagnoses; BAYLIS Ann. Mag. Nat. Hist. Ser. 9 **3.**—*D. tetragona* (Molin), transmitted to fowls by *Musca domestica*; ACKERT J. Parasitol. **6** pp. 28–34.—*D. tetraoensis* **sp. n.,** occurrence and diagnosis; FUHRMANN Rev. Suisse Zool. **27** p. 364 text-figs. 2–8.

Hymenolepis carioca (Magalh.), note on morphology, transmission by *Stomoxys calcitrans*; GUBERLET J. Parasitol. **6** pp. 35–38 pl. iv.—*H. nana* (v. Sieb.) and *H. fraterna* **sp. n.** (=*H. n.* var. *fraterna* Stiles), morphology compared; JOYEUX Bull. Soc. Path. exot. **12** pp. 228–231.

Monopylidium arcticum p. 506 text-figs. 3 & 4, *stercorarium* p. 509, figs 5–7, **spp. n.,** diagnosed; BAYLIS Ann Mag. Nat. Hist. Ser. 9 **3.**

Multiceps (*Coenurus*) *ramosus* **sp. n.,** from *Macacus,* described; RAILLIET & MARULLAZ Bull. Soc. Path exot **12** pp. 223–228 pl. iii

Oochoristica zonari from *Z. tropidosternum,* p. 406 pl. xxi figs. 1–5, *agamae,* from *A.* sp., p. 409 figs. 6, 7, **spp. n.**; BAYLIS Parasitol. **11.**

Proteocephalus ptychocheilus from *P. oregonensis* p. 79, pl. vi figs. 1–6, *laruei* from *Coregonus williamsoni* p. 81, figs. 7–10, **spp. n.,** diagnosed; FAUST J. Parasitol. **6.**

Rhabdometra nigropunctata Crety, from *Caccabis rufa,* note; LOPEZ-NEYRA Asoc. Espan. Progr. Ci. (Congr. Sevilla) **1917** p. 166, 3 text-figs.

Taenioidea, families, genera and species comprising, characteristics and comparisons, hosts; HÄLL Proc. U.S. Nat. Mus. **55** pp. 1–94 80 text-figs.

Tetrabothrius intrepidus **sp. n.,** from *Uria grylle,* Murman Coast; BAYLIS Ann. Mag. Nat. Hist. Ser. 9 **3** p. 502 text-figs. 1 & 2.

NEMERTINEA.

Geonemertes palaensis Semper, from Kei Islands, described; SCHRÖDER Abh. Senckenb. Ges. **35** pp. 153–177 pls. x & xi.

MESOZOA.

Dicyemidae, further contributions to knowledge of life-history; LAMEERE Bull. Biol. France et Belg. **53** pp. 234–275 text-figs. 57–89.

NEMATHELMINTHIA.

SUBJECT INDEX.

COMPREHENSIVE AND GENERAL.

1403

Bibliography.

Dunkerly, 63.

Books, Reviews.

Castellani & Chalmers, 29; Chandler, 36; Ransom & Foster, 206.

Lectures, Addresses.

Steiner, 249.

Economics.

GENERAL.

Agersborg, 4.

RELATION TO DISEASE.

General.

Acton, 3; Berliner & Busch, 18; Blacklock & O'Farrell, 21; Bull, 28; Clapier, 41; Conreur, 47; Cobb, 44; Dammerman, 53; Davis, 54; Glaser & Wilcox, 100; Hungerford, 118; Léger, 154; Muratet, 185; O'Connor, 190; Rodhain, 214; Rousseau, 217; Ruotsalainen, 218; Smith, 241; Yorke & Macfie, 297.

Ankylostomiasis.

Mhaskar, 178; Warner, 281.

Filariasis.

Dumas & Pettit, 62; Rousseau, 216.

Onchocercosis.

Robles, 213.

Spiroptera-cancer.

Fibiger, 82.

Trichinosis.

Jensen, 128.

Miscellaneous.

Artificial Infection.

Ransom & Foster, 206; Stewart, 254 & 255; Yoshida, 299.

Cultivation.

Berliner & Busch, 18; Welch & Wehrle, 285.

Technique.

Acton, 3; Berndt, 19; Job & Stoner, 130; Lane, 148 & 149; Wrench, 294.

STRUCTURE. 1407

General.

NEMATODA.

Brumpt, 27; Cobb, 43; Gedoelst, 92–95; Ihle, 123–125; Lewis, 155; Magath, 165; de Man, 167; Martini, 169; Quiel, 202; Railliet, Henry & Bauche, 204; Robles, 213; Rousseau, 216; Seurat, 232; Yorke & Macfie, 295–297.

ACANTHOCEPHALA.

Van Cleave, 272 & 273.

Alimentary System.

Stöhr, 256.

Excretory System.

Stefanski, 245.

Cytology.

Walton, 280.

PHYSIOLOGY. 1411

Secretion.

Henry & Ciuca, 111.

Excretion.

Stefanski, 245.

Circulation.

Krecker, 143.

Sexuality.

Welch & Wehrle, 285.

Vitality.

Seurat, 230.

DEVELOPMENT. 1415

General, Life-Cycle.

Guberlet, 107; Lewis, 155; Stewart, 255; Steiner, 248; Theiler, 263; Yoshida, 298.

Oogenesis, Fertilization.

Held, 110; Meves, 175 & 176; Sobotta, 242; Walton, 280; Welch & Wehrle, 285.

Parthenogenesis.

Welch & Wehrle, 285.

Larval Forms.

Seurat, 231; Yoshida, 299.

ETHOLOGY. 1419

Bionomics, Habits.

Berliner & Busch, 18; Hungerford, 118; Léger, 152; de Man, 167; Stefanski, 246; Steiner, 247 & 249; Yoshida, 299.

Transmission.

Guberlet, 107.

"CARRIERS."

Berndt, 19; Gmelin, 101; Vogel, 279.

Parasitism. (*Vide etiam* Relation to disease, 1403.)

General.

Johnston, 132; Lopez-Neyra, 159; Seurat, 229.

Insecta.

Cobb, 43; Davis, 54; Theiler, 263.

Pisces.

Van Cleave, 272

Amphibia.

Chandler, 35; Van Cleave, 272

Reptilia.

Gedoelst, 92, 94 & 96; Magath, 165; Van Cleave, 272

Aves.

Barreto, 8; Baylis, 11 & 12; Blanc, 22; Gedoelst, 95; Seurat, 232 & 233; Theiler, 263; Travassos, 264 & 268; Van Cleave, 273; Wharton, 287

Mammalia.

Barreto, 8; Baylis, 13; Blacklock, 20; Broden, 26; Brumpt, 27; Conreur, 47; Forbes, 85; Ihle, 124 & 125; Kotlan, 142; Muratet, 185; Porter, 198; Quiel, 202; Railliet, Henry & Bauche, 204; Riley, 209; Rodhain, 214; Shircore, 236; Turner, 270; Wislocki, 293; Yorke & Macfie, 295–297.

VARIATION, PHYLOGENY. 1423

Hybridization.

Maupas, 170

Classification, Phylogeny.

Barreto, 8; Steiner, 247.

DISTRIBUTION (GEOGRAPHY). 1427

[*Vide etiam* "Parasitism," 1419.]

Europe.

Ditlevsen, 59; Dumas & Pettit, 62; Steiner, 250; Williamson, 292.

Asia.

McNaughton, 172; Mhaskar, 178.

Africa.

Saceghem, 219; Shircore, 236.

SYSTEMATIC. 1431

NEMATHELMINTHIA.

(*a*) **Nematoda.**

Nematodes, marine, free-living, from Danish waters; DITLEVSEN Kjøbenhavn Vid. Medd. **70** pp. 147–214 pls. i–xvi.

Nematodes, free-living, Lake Neuenburg, notes on; STEINER Bull. Soc. Sci. Nat. Neuchâtel **43** pp. 142–240 18 text-figs.

Nematodes, from birds, Africa, diagnoses; SEURAT Novitat. Zool. **26** pp. 179–189 4 text-figs.

Nematodes, parasitic forms, heteroxenous larvae, morphology of; SEURAT Bull. Biol. France et Belg. **52** pp. 344–378 12 text-figs.

Ova of the chief Nematode parasites found amongst Indian troops, characterized; ACTON Ind. J. Med. Res. **6** pp. 604 & 605 pls. i–iii.

Acuaria (*Dispharynx*) *laplantei* **sp. n.**, diagnosis and hosts; SEURAT Novitates Zool. **26** p. 181 text-fig. 2.

Amidostomum chevreuxi **sp. n.** from *Himantopus h.*, diagnosed; SEURAT Bull. Mus. **1918** pp. 113–115 4 text-figs.

Anguillula silusiae de Man, habitat, Thüringen and morphology described; DE MAN Ann. Soc. Zool. Malacol. **48** pp. 1–9 pl. i.

Aphelenchus cocophilus **sp. n.**, attacking cocoanut palms, morphology described; COBB West Indian Bull. **17** pp. 204–206 3 text-figs.

Ascaridia columbae (Gmel.), notes on; JOHNSTON Mem. Queensland Mus. **6** p. 171 text-figs. 5–9.

Ascaris colura **sp. n.**, occurrence and diagnosis; BAYLIS Ann. Mag. Nat. Hist. Ser. 9 **3** p. 457 text-fig. 1.—*A. lumbricoides*, embryogeny and larval forms; YOSHIDA J. Parasitol. **5** pp. 105–115 1 pl.—*A. suilla*, larva, anatomy; STEWART Parasitol. **11** p. 386 pl. xx.

Ascolaimus **gen. n.** (*Anguillulidae*) p. 168 *filiformis* **sp. n.**, p. 168 pl. iv figs. 2, 4, 8, pl. vi fig. 6, coasts of Denmark; DITLEVSEN Vid. Medd. **70.**

Bourgelatia **gen. n.** (*Oesophagostominae*) *diducta* **sp. n.**, from pig, description and relationships; RAILLIET, HENRY & BAUCHE Bull. Soc. Path. exot. **12** pp. 324–332 4 text-figs.

Camallanus americanus **sp. n.**, from turtles, monographic account; MAGATH Trans. Amer. Microsc. Soc. **38** pp. 49–170 pls. vii–xvi.

Choniolaimus **gen. n.** (*Anguillulidae*) p. 185, *papillatus* **sp. n.** p. 185 pl. v fig. 6, pl. vi figs. 1, 4, 9; DITLEVSEN Vid. Medd. **70.**

Chromadora maculata p. 191 pl. x fig. 3, pl. xi figs. 2, 5, *problematica* p. 192 pl. x figs. 5, 8, pl. xi fig. 9 **spp. n.**, coasts of Denmark; DITLEVSEN T.c.

Colhonolaimus **gen. n.** (*Anguillulidae*) p. 188, *inermis* p. 189 pl. ix figs. 1, 6, 8, 9, *gracilis* p. 190, pl. ix fig. 3, pl. x fig. 4, DITLEVSEN T.c.

Crossocephalus longicaudatus **sp. n.** from the rhinoceros; BAYLIS Ann. Mag. Nat. Hist. Ser. 9 **4** pp. 94–98 2 text-figs.

Crossophorus collaris Hemprich and Ehrbg., note on morphology; BAYLIS T.c. pp. 343–349 4 text-figs.

Cyatholaimus microdon p. 199 pl. xi fig. 10, pl. xv fig. 6, *macrodon* p. 200 pl. xi figs. 6, 8, pl. xii fig. 7, **spp. n.** Coasts of Denmark; DITLEVSEN Vid. Medd. **70.**

Cylicostomum pateratum **sp. n.**, from horses, diagnosed; YORKE & MACFIE Ann. trop. Med. Parasitol. **13** pp. 57–62 9 text-figs.—*C. pseudo-catinatum* **sp. n.** from horses, characterised; YORKE & MACFIE Ann. trop. Med. Parasitol. **12** pp. 273–278 9 text-figs.—*C.* = (*Cylichnostomum*) *ratzii* p. 558, *cymatostomum*, *calicatiforme* p. 559, **spp. n.**, from horse, diagnoses; KOTLAN Centralbl. Bakt. Abth. **1 83** Orig.—*C.* (=*Cylichnostomum*) *zebrae* **sp. n.** from Chapman's zebra, described; TURNER Proc. Zool. Soc. **1919** pp. 445–451 6 text-figs.

Cyrnea seuratii Lopez-Neyra, note on; LOPEZ-NEYRA Asoc. Espan. Progr. Ci. (Congr. Sevilla) 1917 p. 168 3 text-figs.

Cyrtosomum **gen. n.** (*Oxyuridae*), characterized, *C. scelopori* **sp. n.** from *Sceloporus undulatus*, N. America, described; GEDOELST C. R. Soc. Biol. **82** pp. 910–912 3 text-figs.

Demania gracilis **sp. n.**, p. 187 pl. x fig. 6, pl. xi figs. 1, 3, 7, coasts of Denmark; DITLEVSEN Vid. Medd. **70.**

Dictyocaulus filaria (Rud.), lungworm of sheep, note on life-history, transmission; GUBERLET J. Amer. Vet. Med. Assoc. N.S. **8** pp. 621–627.

Diplogaster lheritieri **sp. n.**; MAUPAS Bull. Biol. France et Belg. **52** p. 496 text-fig. 7.

Diplotriaena, Raill. & Hen., characters of genus and included species, p. 547, *D. henryi* p. 550 text-figs. 1–3, *parisi* p. 552 figs. 4–6, **spp. n.**, occurrence and diagnosis; BLANC Arch. Parasitol. **16.**

Dorylaimopsis **gen. n.** (*Anguillulidae*) p. 162, *punctatus* **sp. n.** p. 163 pl. ii fig. 6, pl. iii figs. 2, 3, pl. iv, fig. 1, coasts of Denmark; DITLEVSEN Vid. Medd. **70.**

Dorylaimus longicaudatus Bütsch., **var. n.** *aquatilis* p. 164 text-fig. 6, *fecundus* Cobb **subsp. n.** *helveticus* p. 167 fig. 7, occurrence and diagnosis; STEINER Bull. Soc. Sci. Nat. Neuchâtel **43.**

Enoplolaimus audax p. 208 pl. xiv figs. 4, 7, pl. xv fig. 5, *caput medusae* p. 211 pl. xiv fig. 3, pl. xv fig. 7, pl. xvi figs. 1, 2, *cephalophorus* p. 207 pl. xiv figs. 1, 5, 6, pl. xv fig. 1, *dentatus* p. 209, pl. xiii figs. 5, 8, 9, pl. xv figs. 2, 3, pl. xvi fig. 5, *latignathus* p. 205 pl. xii figs. 5, 6, pl. xiii figs. 1, 3, 4, 7, pl. xiv fig. 2, pl. xvi fig. 3, **spp. n.**, coasts of Denmark; DITLEVSEN Vid. Medd. **70.**

Epomidiostomum Skriabine 1916 and *Amidostomum* Raill. & Henry, notes on species comprising these Strongylids; SEURAT Bull. Mus. **1918** pp. 345–351.

Filariae and *Microfilariae*, from Cameroon, notes on structure, occurrence and effects; ROUSSEAU Bull. Soc. Path. exot. **12** pp. 35–51.

Filaria (cf. *bancrofti*), in a man who had never left France, causing lymphadenoma; DUMAS & PETTIT C. R. Soc. biol. **92** pp. 512–514 1 pl.—*F. conjunctivae* (Addario), occurrence in Man, discovery of male worm, notes; FORBES J. R.A.M.C. **33** pp. 363–373 8 text-figs.—*F. gallinarum* **sp. n.** THEILER, Fifth and Sixth Rep. Dir. Vet. Res. Dept. Agric.; Un. S. Afric. 1919 pp. 649–694.—*F. pertenue* **sp. n.**, from *Cephalophus sylvicultor*, morphology, effects on host; RODHAIN Ann. trop. Med. Parasitol. **13** pp. 109–116 pls. ii & iii.

Gilsonia **gen. n.** (*Spiruridae*) for *G. inermis* **sp. n.** from *Cranorrhinus corrugatus*, described; GEDOELST C. R. Soc. Biol. **82** pp. 1145–1148.

Habronema, study of, and of habronemiasis; BULL Adelaide S. Aust. Trans. R. Soc. **43** pp. 85–141 pls. xiii–xv.

Halichoanolaimus longicauda p. 170 pl. v. figs. 5, 7, 8, pl. vi figs. 3, 7, pl. xvi fig. 4, *menzelii* p. 172, pl. vi fig. 2, pl. vii figs. 1, 8, **spp. n.**; DITLEVSEN Vid. Medd. **70.**

Hartertia zorillae **sp. n.** larval form; SEURAT Bull. Biol. France et Belg. **52** p. 353 text-fig. 4 *bis*.

Hedruris siredonis from a newt (*Notophthalmus*), morphology described; CHANDLER J. Parasitol. 5, pp. 116–122 pl. ix.

Histiocephalus Dies., characteristics of the genus, and species included, synonymy; GEDOELST C. R. Soc. Biol. **82** pp. 901–903.

Hypodontolaimus striatus **sp. n.** p. 194 pl. x fig. 2, pl. xi fig. 4; DITLEVSEN Vid. Medd. **70.**

Ironus ignavus Bast. **var. n.** *colonrus*, p. 163, text-fig. 5, occurrence and diagnosis; STEINER Bull. Soc. Sci. Nat. Neuchâtel **43.**

Isakis modiglianii, belongs to the genus *Rhigonema* Cobb.; GEDOELST C. R. Soc. Biol. **82** p. 913.

Linhomoeus lineatus **sp. n.** p. 157 pl. i figs. 2, 5, pl. ii fig. 3; DITLEVSEN Vid. Medd. **70.**

Mermis pachysoma p. 181 text-fig. 8, *aorista* p. 184 fig. 9, **spp. n.**; STEINER Bull. Soc. Sci. Nat. Neuchâtel **43.**

Microfilaria demarquayi and *perstans* from monkeys, compared; BRODEN C. R. soc. biol. **82** pp. 898 & 899.

Monohystera tenuispiculum **sp. n.** p. 150, pl. i figs. 3, 6, 10, coast of Denmark; DITLEVSEN Vid. Medd. **70.**

Monoposthia constricta **sp. n.** p. 195 pl. x figs. 1, 7, pl. xi fig. 11, coast of Denmark; DITLEVSEN T.c.

Nematevansia **nom. nov.** for *Evansia*, Raill. & Henry; IHLE Bydr. Dierk. **21** 1919 p. 100.—*N.* Ihle, syn. *Quilonia* Lane; IHLE Centralbl. Bakt. Abth. 1 **83** Orig. p. 550.

Numidica **gen. n.** Barreto 1918 (*Allodapa* p.p.), for *A. numidica* Seurat, characterized; BARRETO Mem. Inst. Oswaldo Cruz **11** p. 49 pl. v figs. 1–4.

Onchocerca caecutiens **sp. n.**, from Man, pathology, morphology, comparison with *O. volvulus*, BRUMPT Bull. Soc. Path. exot. **12** pp. 464–473 5 text-figs.

Oncholaimus de Mani **sp. n.** p. 203 pl. xii figs. 2, 4, pl. xiii fig. 2; DITLEVSEN Vid. Medd. **70.**

Oxyuris curvula, with comparative references to other species, monumental account of anatomy; MARTINI Zeitschr. wiss. Zool. **116** pp. 137–534 pls. vi–xx & 120 text-figs.

Paramermis macroposthia **sp. n.** p. 217 text-fig. 16, *contorta* (v. Linst.) **var. n.** *bathycola* p. 189 fig. 10, Lake Neuenburg, diagnosed; STEINER Bull. Soc. Sci. Nat. Neuchâtel **43.**

Parasabatieria ornata **sp. n.** p. 166 pl. iii figs. 5, 6, pl. iv figs. 5, 6, coasts of Denmark; DITLEVSEN Vid. Medd. **70.**

Phanoderma steineri **sp. n.** p. 161 pl. ii fig. 4, pl. iii figs. 1, 7, 8, coasts of Denmark; DITLEVSEN T.c.

Pharyngodon tectipenis **sp. n.** from a lizard (Congo), described and compared with other spp. of the genus; GEDOELST C. R. Soc. Biol. **82** pp. 869–872 4 text-figs.

Poteriostomum **gen. n.** (*Sclerostomidae*) *imparidentatum* p. 467 text-figs. 1, 2, *pluridentatum* p. 469, **spp. n.** from horse, diagnosed; QUIEL Centralbl. Bakt. Abth. 1 **83** Orig.

Proleptus obtusus Duj. (*Acuariidae*) morphology described; SEURAT Bull. Mus. **1919** pp. 166–172 2 text-figs.

Rhabditis lambdiensis **nom. n.** p. 487 text-fig. 3, *lucianii* p. 489, fig. 4, *caulleryi* p. 492 fig. 5 **spp. n.**; MAUPAS Bull. Biol. France et Belg. **52**.—*R. tenuicaudata* **sp. n.**, anatomy, especially with reference to absorption and excretion; STEFANSKI Biol. Centralbl. **37** pp. 299–308 9 text-figs.

Rusguniella **gen. n.** for *Spiroptera elongata* Rud. diagnosed; SEURAT Novitates Zool. **26** p. 184 text-fig. 3.

Sabatieria dubia **sp. n.** p. 165 pl. iii fig. 4, pl. iv figs. 3, 7, pl. vi fig. 5; DITLEVSEN Vid. Medd. **70**.

Seuratia **gen. n.** (*Anguillulidae*) p. 197 *gracilis* **sp. n.** p. 197 pl. v figs. 1, 9, pl. vii fig. 7; DITLEVSEN T.c.

Sphaerolaimus paradoxus **sp. n.** p. 174 pl. vii figs. 3, 4, 6, pl. viii figs. 2, 3, 8, coast of Denmark; DITLEVSEN T.c.

Stephanolaimus **gen. n.** (*Anguillulidae*) p. 183, *elegans* **sp. n.** p. 184 pl. v figs. 2, 3, pl. vi fig. 8, coasts of Denmark; DITLEVSEN T.c.

Subulura plotina **sp. n.**; BAYLIS Ann. Mag. Nat. Hist. Ser. 9 **3** p. 459 text-fig. 2.—*S. travassosi* p. 37 pl. xvi figs. 1–5, *lutzi* p. 38 pl. xvii figs. 1–4, *trogoni* p. 39 pl. xv, figs. 3, 4, *bentocruzi* p. 40, pl. xviii figs. 1–3, *carlosi* p. 41 pl. xix figs. 1–4, *olympioi* p. 42, pl. xx figs. 1–5, **spp. n.**, *seurati* Barreto 1917 p. 36, pl. ix figs. 1, 2 & 5, *halli* Barreto 1917 p. 37, pl. xi, figs. 1–4, hosts and diagnosis; BARRETO Mem. Inst. Oswaldo Cruz **11**.

Subulurinae, classification of subfamily, constituent genera and species characterised, with hosts; BARRETO Mem. Inst. Oswaldo Cruz **11** pp. 10–79 (translations, 6–71) pls. ii–xxiv.

Syphacia obvelata, parasitic in Man, note on; RILEY J. Parasitol. **6** pp. 89–93 pl. vii.

Tetradonema **gen. n.** (*Tetradonemidae* **nom. n.**) *plicans* **sp. n.**, from larvae of *Sciara coprophila*, description; COBB J. Parasitol. **5** pp. 176–185 7 text-figs.—*T. plicans*, biology, notes on life-history; HUNGERFORD T.c. pp. 186–192 pl. xix.

Tetrameres, known species, with special reference to Brazilian forms, p. 64, *T. micropenis* Trav. 1915, p. 66, pl. xxv, figs. 1, 2, pl. xxvii figs. 7 & 8, *tetrica* Trav. 1917, p. 67, *dubia* Trav. 1917, p. 68, pl. xxvi, fig. 3, *gigas* Trav. 1917 p. 68 pl. xxviii figs. 12–14, *cochleariae* Trav. 1917 p. 69 pl. xxvii, fig. 6, hosts and diagnoses; TRAVASSOS Mem. Inst. Oswaldo Cruz. **11**.—*T. confusa* (syn. *fissispina* Truram) p. 85, text-figs. 4–7, *gigas* p. 88 figs. 8 & 9, **spp. n.** from domestic birds, notes; TRAVASSOS Rev. vet. zootech. **9**.—*T. fissipina* (Dies.), from chickens, Philippines, notes on morphology; WHARTON Philippine J. Sci. Sect. D. **13** pp. 219–221.

Thoracostomopsis **gen. n.** (*Anguillulidae*) p. 181, *barbatum* **sp. n.** p. 182 pl. ix figs. 2, 7; DITLEVSEN Vid. Medd. **70**.

Trigonolaimus **gen. n.** (*Anguillulidae*) p. 177, *armatus* p. 178 pl. viii figs. 1, 4, 6, 7, *minor* p. 180, pl. viii figs. 5, 9, pl. ix figs. 4, 5, **spp. n.** coasts of Denmark; DITLEVSEN T.c.

Trilobus gracilis Bast. var. *homophysalidis*, p. 151 text-fig. 2, var. *allophysis* p. 156 fig. 3, **varr. n.**; STEINER Bull. Soc. Sci. Nat. Neuchâtel **43**.

Yseria **gen. n** (*Histiocephalus p.p.*) for *Y. decora* (Duj.) and other spp., *californica* **sp. n.**, from *Oidemia deglandi*, diagnosed; GEDOELST C. R. Soc. Biol. **82** pp. 901–903.

b) Nematomorpha.

[Vacant.]

c) Acanthocephala.

Acanthocephala of North American birds, notes on; VAN CLEAVE Trans. Amer. Microsc. Soc. **37** pp. 19–47 pls. i–v.

Acanthocephala, from various Vertebrates, Illinois River, notes on; VAN CLEAVE Bull. Ill. Nat. Hist. Surv. **13** pp. 222–257 pls. xxii–xxviii.

Acanth.

Corynosoma constrictum **sp. n.**, occurrence and diagnosis; VAN CLEAVE Trans. Amer. Microsc. Soc. **37** p. 22 figs. 1–3.

Echinorhynchus salvelini p. 236, figs. 5, 10, 12, *coregoni* p. 237 figs. 6, 11, 13, **spp. n.** Linkins, hosts and diagnoses; VAN CLEAVE Bull. Ill. Nat. Hist. Surv. **13**.

Gracilisentis **gen. n.** (*Neoechinorhynchidae*), *gracilisentis* (Van Cleave), diagnosed; VAN CLEAVE T.c. p. 245 figs. 30–32.

Neoechinorhynchidae, synopsis of the family; VAN CLEAVE T.c. pp. 240, 253.

Neoechinorhynchus crassus **sp. n.**, host and diagnosis; VAN CLEAVE T.c. p. 243 figs. 24, 25, 28.

Octospinifer **gen. n.** (*Neoechinorhynchidae*) *macilentus* **sp. n.**, occurrence and diagnosis; VAN CLEAVE T.c. p. 244 figs. 26, 27, 29.

Plagiorhynchus formosus **sp. n.**, host and diagnosis; VAN CLEAVE Trans. Amer. Microsc. Soc. **37** p. 24 figs. 4–6.

Polymorphus obtusus **sp. n.**, occurrence and diagnosis; VAN CLEAVE T.c., p. 26 figs. 8–12.

Pomphorhynchus bulbocolli **sp. n.** Linkins, host and diagnosis; VAN CLEAVE Bull. Ill. Nat. Hist. Surv. **13** p. 238 figs. 7, 8.

PHYSIOLOGY. 1611

Sexuality.

Shull, 237; Whitney, 289 & 290.

Environmental Effects.

Shull, 237; Whitney, 289 & 290.

DEVELOPMENT. 1615

Embryology.

Tannreuther, 261.

ETHOLOGY. 1619

Plankton.

Virieux, 276.

VARIATION, PHYLOGENY. 1623

Heredity.

Hopkinson, 113.

Phylogeny.

Steiner, 251.

DISTRIBUTION (GEOGRAPHY). 1627

Europe.

Schlenker, 221; Wesenberg-Lund, 286; Wibaut, 291.

Asia.

Michael, 179; Oye, 193.

CHAETOGNATHA, GASTROTRICHA, ROTIFERA.

SUBJECT INDEX.

COMPREHENSIVE AND GENERAL. 1603

Bibliography.

Dunkerly, 63.

STRUCTURE. 1607

General.

GASTROTRICHA.

Steiner, 251.

Reproductive Organs.

Tannreuther, 261.

SYSTEMATIC. 1631

(*a*) **Chaetognatha.**

Chaetognatha, collected by the "Albatross," Philippine Archipelago, notes on; MICHAEL Smithson. Inst. U.S. Nat. Mus. Bull. **100** vol. i pp. 235–277 pls. xxxiv–xxxviii.

Krohnitta kerperti **sp. n.** Javameer; OYE Contrib. Faune des Indes-Néerland **4** p. 24 text-fig. 11.

Sagitta philippini **sp. n.** diagnosis and occurrence; MICHAEL U.S. Nat. Mus. Bull. **100** vol. i p. 240 pl. xxxiv figs. 1–4.—*S. trichodermis* p. 8 text-figs. 1–3, *weberi* p. 15, fig. 4, *pseudoregularis* p. 17, fig. 5, *parva* p. 20 figs. 6–8, **spp. n.** Javameer; OYE Contrib. faune des Indes Néerlandaises **4**.

Zahonya gen. n. p. 22, *cestoda* sp. n. p. 23 text-fig. 9, Java; OYE T.c.

(*b*) Gastrotricha.

Centropsis arcticus sp. n., a Kinorhynchid larval form, morphology, phylogenetic affinities to Nematoda; STEINER Zool. Anz. **50** pp. 177–187 4 text-figs.

(*c*) Rotifera.

Rotifera, plancton, Jura Lakes, notes; VIRIEUX Ann. Biol. lacustre **8** pp. 105–115;

ANNELIDA, GEPHYREA, PHORONIDEA, PTEROBRANCHIATA.

SUBJECT INDEX.

COMPREHENSIVE AND GENERAL. 1803

Bibliography.
Dunkerly, 63.

Museum Collections.
Nick, 188.

Cultivation.
Löhner, 157.

STRUCTURE. 1807

General Anatomy.

ANNELIDA.

Fauvel, 77; Johnston & Tiegs, 135; MacCallum & MacCallum, 163; M'Intosh, 180; Remscheid, 207; Smith & Green, 240.

GEPHYREA.

Fischer, 83 & 84.

PHORONIDEA.

Gilchrist, 97.

Choetae.
Johannson, 131.

Alimentary Canal.
Menzi, 173; Stephenson & Prashad, 252.

Circulatory Organs.
Meyer, 177.

Metamerism.
Malaquin, 166.

Excretory System.
Bahl, 6.

Reproductive Organs.
Baltzer, 7; Stephenson & Ram, 253.

Histology.
Gilchrist, 98; Gilson, 99; Livanoff, 156.

PHYSIOLOGY. 1811

General.
Malaquin, 166; Vlés, 278.

Nutrition, Excretion.
Diwany, 60; Löhner, 157.

Blood.
Vlés, 277.

Luminosity.
Brade-Birks, 25; Friend, 88; Gilchrist, 98.

Growth.
Fauvel, 76.

Regeneration.
Hunt, 119.

Sexuality, Hermaphroditism.
Baltzer, 7; Dehorne, 55; Nachtsheim, 186.

Vitality, Anabiosis.
Schmidt, 222; Schmidt & Stchepkina, 223.

Environmental Effects. Response to Stimuli.
Hyman, 121; Kanda, 138; Schmidt & Stchepkina, 223; Szymanski, 260.

DEVELOPMENT. 1815

Asexual Reproduction.

Dehorne, 55 & 56; Gilchrist, 97; Maupas, 171.

Regeneration.

Hunt, 119; Mesnil & Caullery, 174.

Spermatogenesis, Oogenesis, etc.

Nachtsheim, 186.

Embryology.

Schleip, 220; Soulier, 244.

Organogeny.

Menzi, 173.

Anomalies.

Rioja, 212.

ETHOLOGY. 1819

Bionomics. Habits.

Allen, 5; Dehorne, 56; Friend, 89; Piguet, 196; M'Intosh, 180.

Parasitism.

Echinodermata.

Remscheid, 207.

Crustacea.

Ellis, 66 & 67.

VARIATION, PHYLOGENY. 1823

Classification, Phylogeny.

Chamberlin, 34; Rioja, 211.

DISTRIBUTION (GEOGRAPHY.) 1827

1. Recent (Geographical).

Europe.

Chumley, 40; Friend, 86, 87 & 90; Horst, 114 & 117; M'Intosh, 180; Piguet, 195 & 196; Rioja, 211; Szüts, 259; Wesenberg-Lund, 286.

Asia.

Ehlers, 64; Fauvel, 77 & 78; Horst, 115 & 116; Prashad, 199; Remscheid, 207.

Africa.

Fauvel, 77, 79–81; Smith & Green, 240.

Australasia.

Benham, 17; Fischer, 83; Johansson, 131.

America.

Cross, 51; Hoagland, 112; Smith, 238; Smith & Dickey, 239; Welch, 284.

Pacific.

Chamberlin, 33 & 34.

Antarctic.

Gravier, 105.

2. Fossil (Geological).

Secondary.

Bather, 9; Krenkel, 144; Lange, 151.

Primary.

Chapman, 37; Hadding, 108.

SYSTEMATIC. 1831

1. ANNELIDA.

(*a*) Archiannelida.

[Vacant.]

(*b*) Polychaeta.

Polychaeta, various localities, "Albatross" expeditions, diagnosed; CHAMBERLIN Mem. Mus. Comp. Zool. Harvard **48** 514 pp. 80 pls.

Polychaeta, Pacific Coast, collected by A. Agassiz; CHAMBERLIN Bull. Mus. Comp. Zool. Harvard **63** No. 6 pp. 251–276 3 pls.

Polychaeta, Aru and Kei Islands, diagnosed; EHLERS Abh. Senckenberg. Ges. **35** 2 pp. 227–250 pls. xv–xvii.

Polychaeta from Madagascar, Djibouti and the Persian Gulf, described; FAUVEL Arch. Zool. exp. **58** pp. 315–473 pls. xv–xvii.

Polychaetes, coasts of Arabia, notes; FAUVEL Bull. Mus. **1918** pp. 329–344.

Polychaeta, Porto Rico, Bermudas, etc., diagnosed; HOAGLAND Bull. Amer. Mus, Nat. Hist. **41** pp. 571–591 pls. xxix–xxxii.

Polychaetes, Cantabria, notes; RIOJA Rev. Acad. Ci. **17** pp. 54–79.

Polychaeta, "membranae limitantes," Bau und Bedeutung, (Russ); LIVANOFF Kazani Trd. obšč. jest **46**, No. 2 pp. 1–286 pl. i–viii.

Admetella hastigerens p. 64 pl. ix figs. 6–8, *dolichopus* p. 67, pl. x fig. 1, **spp. n.**; CHAMBERLIN Mem. Mus. Harvard **48.**

Alkmaria **gen. n.** (*Terebellidae*) *romijni* **sp. n.**, from brackish water, Netherlands, diagnosed; HORST Zool. Mededeel **5** p. 100 1 text-fig.

Amage inhamata **sp. n.** Bermuda, diagnosed; HOAGLAND Bull. Amer. Mus. Nat. Hist. **41** p. 577 pl. xxx figs. 7–9.

Ambo **gen. n.** (*Cirrhatulidae*) *perbranchiata* p. 177, *convergens* p. 178, **spp. n.**, Monterey, diagnosed; CHAMBERLIN Proc. Biol. Soc. Washington **31.**

Ammotrypane kampeni p. 22 text-fig. 1, *ehlersi* p. 23 fig. 2, *kükenthali* p. 23, *buitendijki* p. 24, fig. 3, **spp. n.**, Malay Archipelago, diagnosed; HORST Zool. Mededeel. **5.**—*A. remigera* **sp. n.**; EHLERS Abh. Senckenb. Ges. **35** p. 245 pl. xvii figs. 1–4.

Ampharete homa **sp. n.** p. 444 pl. lxxvii figs. 7, 8; CHAMBERLIN Mem. Mus. Harvard **48.**

Amphicteis obscurior p. 447, pl lxxvi **figs. 1, 2,** pl. lxxvii fig. 3, *uncopalea* p. 448, pl. lxxvi figs. 5, 6, pl. lxxvii fig. 4, *orphnius* p. 450, pl. lxxvi figs. 3, 4, pl. lxxvii figs. 1, 2, **spp. n.**; CHAMBERLIN T.c.

Anaitides compsa **sp. n.** p. 105 pl. xv figs. 8 & 9, pl. xvi figs. 1–6; CHAMBERLIN T.c.

Ancistrosyllis rigida **sp. n.**, occurrence and diagnosis; FAUVEL Bull. Mus. **1919** p. 337 text-fig. 1.—*A. r.* Fauvel; FAUVEL Arch. Zool. **58** p. 373 text-fig. **4.**

Antiobactrum **gen. n.** for *Ophelina brasiliensis*, p. 385; CHAMBERLIN Mem. Mus. Harvard **48.**

Aphelothrix **gen. n.** (*Leodicidae*) for *Marphysa mossambica* Peters, p. 231; CHAMBERLIN T.c.

Aphrodite defendens **sp. n.** p. 80; CHAMBERLIN T.c.—*A. leioseta* **sp. n.**, California; CHAMBERLIN Bull. Mus. Comp. Zool. Harvard **63** p. 254.

Arabella munda **sp. n.**, p. 258; CHAMBERLIN T.c.

†*Arabellites serra* **sp. n.** Schweden Ordovician; HADDING Lund Univ. Årsskr, N.F. **9** Afd. 2 No. 15 p. 33 pl. i figs. 12–13.

Aricia bioreti **sp. n.**, coasts of Africa; FAUVEL Bull. Mus. **1919** p. 34 text-fig. 2.—*A. bioreti* Fauvel p. 430 figs. 52–56, *A. foetida* Clap. **var. n.** *australis* p. 429, occurrence and diagnoses; FAUVEL Arch. Zool. exp. **58.**

Audouinia filigera **subsp. n.** *nesophila* p. 380 pl. lxx figs. 5, 6; CHAMBERLIN Mem. Mus. Harvard **48.**

Autolytus obliquatus p. 168, pl. xix fig. 8, pl. xx figs. 1–3, *planipalpus* p. 170 pl. xx fig. 4, pl. xxi figs. 1, 2, *torquens* p. 172, pl. xix figs. 5, 7, **spp. n.**; CHAMBERLIN T.c.

Balanochaeta **gen. n.** (*Flabelligeridae*), for *Trophonia eruca*, p. 397; CHAMBERLIN T.c.

Brada verrucosa p. 399, pl. lxviii figs. 3–6, *irenaia* p. 400, figs. 7–9, pl. lxix figs. 1–3, **spp. n.**, CHAMBERLIN T.c.

Branchethus **gen. n.** (*Ariciidae*) p. 357, *latum* **sp. n.** p. 358 pl. lxiv figs. 7–11, pl. lxv figs. 1, 2; CHAMBERLIN T.c.

Bylgides **nom. nov.** for *Bylgia* Théel praeocc., p. 40; CHAMBERLIN T.c.

Caulleriella **gen. n.** for *Cirrhatulus viridis* p. 372; CHAMBERLIN T.c.

Cenogenus **gen. n.** (*Lumbriconereidae*) *descendens* **sp. n.** p. 333; CHAMBERLIN T.c.

Cenothrix **gen. n.** (*Lumbriconereidae*) p. 329 *mutans* **sp. n.** p. 330 pl. lxi figs. 1–9, pl. lxii fig. 1; CHAMBERLIN T.c.

Ceratonereis erythræensis p. 505 text-fig. 2, *pachychaeta* p. 506, fig. 3, **spp. n.**, African coasts; FAUVEL Bull. Mus. **1918**.—*C. pachychaeta* p. 403, figs. 22–25, *erythraeensis* p. 407, figs. 26–30, 42–47, Madagascar and Red Sea: FAUVEL Arch. Zool. exp. **58**.

Chaetonereis fakaravae **sp. n.**, p. 213 pl. xxxv figs. 6–8; CHAMBERLIN Mem. Mus. Harvard **48**.

Chaunorhynchus **nom. n.** for *Ceratocephale* praeocc., p. 194; CHAMBERLIN T.c.

Chloeia eutypa **sp. n.** p. 30, pl. xiii figs. 8 & 9, pl. xiv figs. 1 & 2; CHAMBERLIN T.c.

Cirrhatulus exuberans **sp. n.** p. 263; CHAMBERLIN Bull. Mus. Harvard **63**.—*C. megalus* p. 375 pl. lxx figs. 1–4, *sinincolens* p. 377, figs. 7–10, **spp. n.**; CHAMBERLIN Mem. Mus. Harvard **48**.

Cirrhinereis nesiotes **sp. n.** p. 373, pl. lxx figs. 5, 6; CHAMBERLIN T.c.

†*Cordylodus ramosus* **sp. n.** Schweden Ordovician; HADDING Lund Univ. Årsskr. N.F. **9** Afd. 2 No. 15 p. 31 pl. i fig. 6.

†*Cornulites youngi* **sp. n.**, Silurian, diagnosed; CHAPMAN Proc. R. Soc. Victoria **31** p. 321 pls. xiii & xiv *p.p.*

Corynocephalus paumotanus **sp. n.** p. 141 pl. xxiii figs. 1–3; CHAMBERLIN Mem. Mus. Harvard **48**.

Crucigera hespera **sp. n.**, p. 270 pl. ii fig. 9; CHAMBERLIN Bull. Mus. Harvard **63**.

Dexiorbis **subgen. n.** of *Dexiospira* C. and M. for *D. foraminosus*, p. 478; CHAMBERLIN Mem. Mus. Harvard **48**.

Dindymenides **nom. n.** for *Dindymene* praeocc. p. 385; CHAMBERLIN T.c.

Distylia monterea **sp. n.** p. 267; CHAMBERLIN Bull. Mus. Harvard **63**.

Dorvillea crassa **sp. n.** p. 339 pl. lxii figs. 6, 7, pl. lxiii fig. 1; CHAMBERLIN Mem. Mus. Harvard **48**.

†*Drepanodus falcatus* p. 30 pl. i fig. 3, *verutus* p. 31 pl. i fig. 4, *robustus* p. 31 pl. i fig. 5, Schweden Ordovician: HADDING Lund Univ. Årsskr. N.F. **9** Afd. 2 No. 15.

Ephesiella **gen. n.** (*Sphaerodoridae*), genus only diagnosed, p. 182; CHAMBERLIN Mem. Mus. Harvard **48**.

Eulepethus **nom. nov.** for *Eulepis* Grube, p. 90; CHAMBERLIN T.c.

Eulepis geayi **sp. n.**, occurrence and diagnosis; FAUVEL Bull. Mus. **1918** p. 503 text-fig. 1, and Arch. Zool. exp. **58** p. 535 figs. 17–21 76–79.

Eunoe eura **sp. n.** p. 58 pl. iii figs. 2–6; CHAMBERLIN Mem. Mus. Harvard **48**.

Eupistella **nom. nov.** for *Eupista*, p. 424; CHAMBERLIN T.c.

Eupolymnia crescentis **sp. n.** p. 265 pl. iii figs. 6 & 7; CHAMBERLIN Bull. Mus. Harvard **63**.—*E. regnans* p. 433 pl. lxxix figs. 1–3, *insulana* p. 434, figs. 4–6, **spp. n.**; CHAMBERLIN Mem. Mus. Harvard **48**.

Euphrosyne panamica **sp. n.** p. 33, pl. xii figs. 7 & 8, pl. xiii figs. 1–7; CHAMBERLIN Mem. Mus. Harvard **48**.

Euratella **gen. n.** (*Sabellidae*) for *Laonome salmicidis* p. 469; CHAMBERLIN T.c.

Euscione **nom. nov.** for *Scione*, p. 423; CHAMBERLIN T.c.

Euspio multioculata **sp. n.**, Cantabria, diagnosed; RIOJA Rev. Acad. Ci. **17** p. 60 text-fig. 2.

Evarnella **nom. nov.** for *Evarne* Malmgr. praeocc., p. 40; CHAMBERLIN Mem. Mus. Harvard **48**.

Filograna implexa, distribution, general account of; M'INTOSH Ann. Mag. Nat. Hist. Ser. 9 **3** pp. 125–162.

Glycera profundi p. 350 pl. lxiv figs. 2–6, *fundicola* p. 352, **spp. n.**; CHAMBERLIN Mem. Mus. Harvard **48**.

Gravierella **gen. n.** (*Maldanidae*) *multiannulata* **sp. n.**, intercalary growth described; FAUVEL Bull. Soc. Zool. **44** pp. 36–40 1 text-fig.—*G. m.* described; FAUVEL Arch. Zool. exp. **58** p. 438 figs. 58 & 59.—*G. m.* Fauvel [also described here as new]: FAUVEL Bull. Mus. **1919** p. 37 text-fig. 4. [The practice of this author in describing the same form as new in two or three periodicals is most reprehensible.]

Grubea longisetis **sp. n.**, French Guinea; FAUVEL Bull. Mus. **1919** p. 474 text-fig. 2 *a–d*.

Gwasitoa **gen. n.** (*Scalibregmidae*) for *Oncoscolex heterochaetus* p. 390; CHAMBERLIN Mem. Mus. Harvard **48**.

†*Hammatopsis* **gen. n.** *scanicus* **sp. n.**, Schweden Ordovician; HADDING Lund Univ. Åsskr. N.F. **9** Afd. 2 No. 15 p. 27 pl. i fig. 1.

Harmopsides **gen. n.** (*Polynoidae*) p. 48, *natans* **sp. n.** p. 48 pl. vi figs. 1–5; CHAMBERLIN Mem. Mus. Harvard **48**.

Harmothoe mexicana **sp. n.** p. 54 pl. i figs. 1–9, pl. ii fig. 1; CHAMBERLIN T.c.—*H. watsoni* M'I. and var. *marphysae* M'I., note on; M'INTOSH Ann. Mag. Nat. Hist. Ser. 9 **3** p. 163.

Hemipodus mexicanus **sp. n.** p. 349, pl. lxiii figs. 2, 3; CHAMBERLIN Mem. Mus. Harvard **48**.

Hesione panamena **sp. n.** p. 188 pl. xxii figs. 9, 10; CHAMBERLIN T.c.

Hesperonoe **gen. n.** (*Polynoïdae*) p. 252, *senilis* **sp. n.** p. 253 pl. i figs. 1–4, California, diagnosed; CHAMBERLIN Bull. Mus. Comp. Zool. Harvard **63**.

Hyalinoecia tecton p. 310 pl. xxxviii figs. 4–9, pl. xxxix figs. 1, 2, *leucaera* p. 317, pl. xxxvii figs. 9, 10, pl. xxxviii figs. 1–3, **spp. n.**; CHAMBERLIN Mem. Mus. Harvard **48**.

Hydroides exaltatus (Marenz.) **var. n.** *vesiculosus*; FAUVEL Bull. Mus. **1919** p. 342.—*H. norvegica* Gunn, note on anomaly and phylogenetic considerations; RIOJA Bol. Soc. espan. hist. nat. **19** pp. 445–449 2 text-figs.—*H. perezi* **sp. n.**, Persian Gulf, diagnosed; FAUVEL Bull. Mus. **1918** p. 342 text-fig. 2, and Arch. Zool. exp. **58** p. 462 text-fig. 12.

Idanthyrsus cretus p. 485 pl. lxxv figs. 8–15, *regalis* p. 487, pl. lxxiv figs. 1–8, **spp. n.**; CHAMBERLIN Mem. Mus. Harvard **48**.—*I. ornamentatus* **sp. n.**, p. 262 pl. iii figs. 2–5; CHAMBERLIN Bull. Mus. Harvard **63**.

Ilyphagus **gen. n.** (*Flabelligeridae*) p. 402, *bythincola* p. 402 pl. lxix figs. 4–9, *pluto* and *ascendens*, p. 403, **spp. n.**; CHAMBERLIN Mem. Mus. Harvard **48**.

Kaionereis **gen. n.** (*Nereidae*) p. 196, *alata* **sp. n.** p. 197 pl. xxviii figs. 6–8, pl. xxix figs. 1–8; CHAMBERLIN T.c.

Kebuita **gen. n.** (*Scalibregmidae*) for *Eumenia glabra*, p. 390; CHAMBERLIN T.c.

Kesun **gen. n.** (*Opheliidae*) p. 385, *fusus* **sp. n.** p. 386, pl. lxvii fig. 5, pl. lxviii figs. 1, 2; CHAMBERLIN T.c.

Laetmatonice brevihastata **sp. n.**, Aru Islands; EHLERS Abh. Senckenb. Ges. **35** p. 231 pl. xv figs. 1–7.

Laonomedes **gen. n.** (*Sabellidae*) for *Laonome antarctica*, p. 469; CHAMBERLIN Mem. Mus. Harvard **48**.

Leiocrates anomalus **sp. n.** p. 190; CHAMBERLIN T.c.

Leodice enteles **sp. n.**, Monterey, diagnosed; CHAMBERLIN Proc. Biol. Soc. Washington **31** p. 175.—*L. makemoana* p. 233, pl. liii figs. 1–11, *segregata* p. 237, pl. liv figs. 1–5, *lita* p. 240 pl. liv figs. 6–10, pl. lv figs. 1–7, *oliga* p. 244 pl. lv fig. 11, pl. lvi figs. 2–9 with **subsp. n.** *papeetensis* p. 248 pl. lv figs. 8–10, pl. lvi fig. 1, *pauroneurata* p. 249, pl. lvii figs. 8, 9, pl. lviii figs. 1–9, pl. lix figs. 1–3, *nesiotes* p. 253 pl. lvii figs. 6, 7, *panamena* p. 256, pl. lix figs. 4–8, pl. lx figs. 1–5, *contingens* p. 260, pl. lvii figs. 1–5, **spp. n.**; CHAMBERLIN Mem. Mus. Harvard **48**.—*L. valens* **sp. n.**, California; CHAMBERLIN Bull. Mus. Harvard **63** p. 257 pl. i figs. 6–8.

Lepidasthenia curta **sp. n.** p. 61 pl. v figs. 4–9; CHAMBERLIN Mem. Mus. Harvard **48**.

Lepidonotus nesophilus **sp. n.** p. 75 pl. iv figs. 1–7, pl. v fig. 13; CHAMBERLIN T.c.—*L. notata* **sp. n.**, Porto Rico; HOAGLAND Bull. Amer. Mus. Nat. Hist. **41** p. 572 pl. xxix figs. 5–10.—*L. onisciformis* **sp. n.**; EHLERS Abh. Senckenberg. Ges. **35** p. 233 pl. xv figs. 8–11, pl. xvi figs. 1–4.

Leptoecia **gen. n.** (*Onuphidae*) p. 319, *abyssorum* **sp. n.** p. 320, pl. xxxvi figs. 1–6, pl. xxxvii figs. 1–8; CHAMBERLIN Mem. Mus. Harvard **48**.

Lopadorrhynchus parvum p. 114, pl. xvii figs. 6 & 7, *nans* p. 116, pl. xvii fig. 5, **spp. n.**; CHAMBERLIN T.c.

Lumbriconereis papillifera **sp. n.**, Madagascar, diagnosed; FAUVEL Arch. Zool. **58** p. 395 figs. 9–16, and Bull. Mus. **1918** p. 508 text-fig. 4.—*L. papillosa* **sp. n.**; EHLERS Abh. Senckenb. Ges. **35** p. 241 pl. xvi figs. 8–16.

Maldanella fibrillata **sp. n.** p. 413, pl. lxxii figs. 1–6, pl. lxxiii figs. 1 & 2; CHAMBERLIN Mem. Mus. Harvard **48.**

Mastigethus **gen. n.** (*Phyllodocidae*) p. 119, *errans* **sp. n.** p. 120 pl. xvii figs. 8 & 9, pl. xviii figs. 1–6; CHAMBERLIN T.c.

Mauita **gen. n.** (*Alciopidae*) p. 135, *nans* **sp. n.** p. 136 pl. xxiv figs. 10 & 11, pl. xxv figs. 1–6; CHAMBERLIN T.c.

Moyamis **gen. n.** (*Ampharetidae*) p. 451, *explorans* **sp. n.** p. 452, pl. lxxvii figs. 11 & 12; CHAMBERLIN T.c.

Nainereis nannobranchia **sp. n.**, California; CHAMBERLIN Bull. Mus. Harvard **63** p. 260 pl. ii fig. 10, pl. iii fig. 1.—*N. retusiceps* **sp. n.** p. 355, pl. lxv figs. 3–5; CHAMBERLIN Mem. Mus. Harvard **48.**

Namanereis **gen. n.** (*Nereidae*) type *N. quadraticeps* (Gay), p. 194; CHAMBERLIN T.c.

Nans **gen. n.** (*Phyllodocidae*) *simplex* **sp. n.** p. 125 pl. xviii figs. 7 & 8, pl. xix figs. 1–4; CHAMBERLIN T.c.

Nephthys ectopa **sp. n.** p. 94, pl. xv figs. 1–7; CHAMBERLIN T.c.—*N. spiribranchis* **sp. n.**; EHLERS Abh. Senckenberg. Ges. **35** p. 235 pl. xvi figs. 5–7.—*N. tulearensis* **sp. n.**; FAUVEL Arch. Zool. exp. **58** p. 422 figs. 31–39, and Bull. Mus. **1919** p. 33 text-fig. 1.

Nereis buitendijki p. 59 text-fig. 1, *N.* (*Perinereis*) *rumphii* p. 60 fig. 2, *N.* (*Ceratonereis*) *ramosa* p. 62 fig. 3, **spp. n.**, Dutch E. Indies; HORST Zool. Meded. **5.**—*N. glandulata* **sp. n.** Porto Rico, diagnosed; HOAGLAND Bull. Amer. Mus. Nat. Hist. **41** p. 575 pl. xxx figs. 1–6.—*N. mendocinana* **sp. n.**, California, diagnosed; CHAMBERLIN Bull. Mus. Harvard **63** p. 256 pl. i fig. 5.—*N.* (*Neanthes*) *monterea* **sp. n.**, Monterey, diagnosed; CHAMBERLIN Proc. Biol. Soc. Washington **31** p. 174.—*N. segrex* p. 202 pl. xxxii figs. 3–5, *leuca* p. 205 figs. 6–8 pl. xxxiii figs. 1–6, *caenocirrus* p. 209 figs. 7 & 8, pl. xxxiv figs. 1–6 and pl. xxxv figs. 1 & 2, **spp. n.**; CHAMBERLIN Mem. Mus. Harvard **48.**

Nerinides cantabra **sp. n.**; RIOJA Rev. Acad. Ci. **17** p. 55 text-fig. 1.

Nicolea taboguillae p. 425 pl. lxxix figs. 12 & 13, *galapagensis* p. 427, pl. lxxx figs. 1–3, *profundi* p. 429 pl. lxxix fig. 9, *latens* p. 430 figs. 10 & 11, **spp. n.**; CHAMBERLIN Mem. Mus. Harvard **48.**

Notomastus pallidior **sp. n.**, Monterey, diagnosed; CHAMBERLIN Proc. Biol. Soc. Washington **31** p. 179.

Oenone telura **sp. n.** p. 335, pl. lxii figs. 2–5; CHAMBERLIN Mem. Mus. Harvard **48.**

Odontosyllis atypica **sp. n.** p. 180, pl. xxi figs. 3 & 4, pl. xxii figs. 1–3; CHAMBERLIN T.c.

Onuphis proalopus p. 265 pl. xl figs. 3–8, pl. xli figs. 1–10, *nannognathus* p. 270, pl. xliii figs. 8–11, pl. xliv figs. 1–5, *litabranchia* p. 274, pl. l fig. 7, pl. li figs. 1–10, pl. lii fig. 1, *pachytmena* p. 279, pl. xlviii figs. 5–11, pl. xlix figs. 1–8, pl. l figs. 1–6, *socia* p. 284, pl. xlvii figs. 1–11, pl xlviii figs. 1–4, *lepta* p. 290, pl. xlv figs. 1–7, pl. xlvi figs. 3–12, *crassisetosa* p. 295, pl. xlii figs. 1–6, pl. xliii figs. 1–7, *cobra* p. 300 pl. lii figs. 1–8, **spp. n.**; CHAMBERLIN T.c.

Oriades **nom. nov.** for *Oria* praeocc., p. 470; CHAMBERLIN T.c.

Pabits **gen. n.** (*Ampharetidae*) p. 456, *deroderus* **sp. n.** p. 457, pl. lxxvii figs. 5 & 6; CHAMBERLIN T.c.

Paiwa **gen. n.** (*Ampharetidae*) *abyssi* **sp. n.** p. 459, pl. lxxvi figs. 7–9, pl. lxxvii figs. 9 & 10; CHAMBERLIN T.c.

Panthalis panamensis **sp. n.** p. 86 pl. xi figs. 4–8, pl. ii figs. 1–6; CHAMBERLIN T.c.

Pantoithrix **gen. n.** (*Flabelligeridae*) for *Pherusa chilensis*, p. 397; CHAMBERLIN T.c.

Parabasella fonticula p. 579 pl. xxxi figs. 3–9, *midoculi* p. 579 pl. xxxi figs. 10–14, pl. xxxii figs. 1, 2, *flecata* p. 580 pl. xxxii figs. 3–8, occurrence and diagnoses; HOAGLAND Bull. Amer. Mus. Nat. Hist. **41**.

Paronuphis solenotecton **sp. n.** p. 306, pl. xxxix figs. 3–8, pl. xl figs. 1, 2; CHAMBERLIN Mem. Mus. Harvard **48**.

Paumotella **gen. n.** (*Serpulidae*) p. 481, *takemoana* **sp. n.** p. 482 pl. lxxviii figs. 1–5; CHAMBERLIN T.c.

Perinereis nuntia **var. n.** *djiboutiensis*; FAUVEL Arch. Zool. exp. **58** p. 420.

†*Periodon* **gen. n.**, *aculeatus* **sp. n.** Schweden Ordovician; HADDING Lund Univ. Årsskr. N.F. **9** Afd. 2 No. 15 p. 33 pl. i fig. 14.

Petaloproctus crenatus **sp. n.** p. 410 pl. lxxiii figs. 3–7; CHAMBERLIN Mem. Mus. Harvard **48**.

Phyllodoce fakaravana **sp. n.** p. 108, pl. xvi figs. 7–12; CHAMBERLIN T.c.

Pista brevibranchia **sp. n.**, p. 264 pl. ii figs. 1–4; CHAMBERLIN Bull. Mus. Harvard **63**.

Platynereis polyscalma **sp. n.** p. 219 pl. xxx figs. 5–8, pl. xxxi figs. 1–10 and pl. xxxii figs. 1, 2; CHAMBERLIN Mem. Mus. Harvard **48**.

Plotobia **gen. n.** (*Typhloscolecidae*) p. 154 *simplex* p. 155 pl. lxv figs. 6–11, pl. lxvi fig. 1, *coniceps* p. 156, pl. lxvi figs. 2–4, **spp. n.**; CHAMBERLIN T.c.

Plotohelmis **gen. n.** (*Alciopidae*) p. 143, *alata* **sp. n.** p. 144 pl. xxiii figs. 4–10, pl. xxiv figs. 1–3; CHAMBERLIN T.c.

Plotolepsis **gen. n.** (*Polynoidae*) p. 40, *nans* **sp. n.** p. 41 pl. vii figs. 3 & 4; CHAMBERLIN T.c.

Podarke guanica **sp. n.**, Porto Rico, diagnosed; HOAGLAND Bull. Amer. Mus. Nat. Hist. **41** p. 571 pl. xxix figs. 1–4.

Podarmus **gen. n.** (*Polynoidae*) p. 45, *ploa* **sp. n.** p. 46, pl. vi fig. 6 and pl. vii figs. 1 & 2; CHAMBERLIN Mem. Mus. Harvard **48**.

†*Polygnatus alternans* pl. i fig. 7, *spinatus* pl. i fig. 8, **spp. n.** Schweden Ordovician; HADDING Lund. Univ. Årsskr. N.F. **9** Afd. 2 No. 15 p. 32.

Polynoe innatans pl. 70, pl. viii figs. 1–7, *nesiotes* p. 72 pl. viii fig. 8, pl. ix figs. 1–5, **spp. n.**; CHAMBERLIN Mem. Mus. Harvard **48**.

Pomatostegus stellatus; JOHANSSON Stockholm Vet.-Ak. Handl. **58** No. 7 p. 10 fig. 2 8–12.

Pontogenia curva **sp. n.** p. 83, pl. x figs. 2–7, pl. xi fig. 12; CHAMBERLIN Mem. Mus. Harvard **48**.

Potamoceros paumotanus **sp. n.** p. 479. pl. lxxviii figs. 6–9; CHAMBERLIN T.c.

†*Prioniodus alatus* pl. i figs. 9–10, *discedens* pl. i fig. 11, **spp. n.** Schweden Ordovician; HADDING Lund. Univ. Årsskr, N.F. 9 Afd. 2 No. 15 p. 32.

Protis torquata **sp. n.**, Porto Rico; HOAGLAND Bull. Amer. Mus. Nat. Hist. **41** p. 580 pl. xxxii figs. 9–13.

Protula procera **sp. n.**; EHLERS Abh. Senckenberg Ges. **35** p. 248 pl. xvii figs. 5–9.

Pseudonereis atopodon **sp. n.** p. 228, pl. xxxv figs. 3–5; CHAMBERLIN Mem. Mus. Harvard **48**.

Pseudopotamilla panamica **sp. n.** p. 268 pl. iii fig. 8; CHAMBERLIN Bull. Mus. Harvard **63**.

Pterothrix **gen. n.** (*Lumbriconereidae*), type *Notocirrus scoticus* M'Int., p. 325; CHAMBERLIN Mem. Mus. Harvard **48**.

Rhynchonerella pycnocera p. 147, pl. xxv figs. 7, 8, pl. xxvi, figs. 1–6, *parva* p. 150, pl. xxv figs. 9, 10, **spp. n.**; CHAMBERLIN T.c.

Sabellaria nanella **sp. n.**, p. 261 pl. ii figs. 5–7; CHAMBERLIN Bull. Mus. Harvard **63**.

Sabellastarte indica; JOHANSSON Stockholm Vet.-Ak. Handl. **58** No. 7 p. 3 figs. 1 A-B.

Sabellides delius **sp. n.** p. 455, pl. lxxvii fig. 13; CHAMBERLIN Mem. Mus. Harvard **48**.

Saphobranchia **gen. n.** (*Flabelligeridae*), for *Stylariodes longisetosa*, p. 397; CHAMBERLIN T.c.

Scionides **gen. n.** for *Terebella reticulata* p. 421; CHAMBERLIN T.c.—*S. dux* **sp. n.** p. 266, pl. iii fig. 9; CHAMBERLIN Bull. Mus. Harvard **63.**

Scoloplos madagascariensis **sp. n.**, diagnosed; FAUVEL Bull. Mus. **1919** p. 36 text-fig. 3, and Arch. Zool. exp. **58** p. 433 figs. 81–86.

Semiodera **gen. n.** (*Flabelligeridae*) for *Siphonostoma cariboum*, p. 397; CHAMBERLIN Mem. Mus. Harvard **48.**

Serpula nannoides **sp. n.** p. 270, pl. ii fig. 8; CHAMBERLIN Bull. Mus. Harvard **63.**—*S. vermicularis* var. *granulosa*; JOHANSSON Stockholm Vet.-Ak. Handl. **58** No. 7 p. 6 fig. 1 C.

†*S.*, Kelloway-Fauna, Popilani, W. Russia, notes; KRENKEL Palaeontograph **61** p. 341 pl. xxv fig. 44.—*S. pentastemma* **nom. nov.** for *S. cincta* Geinitz 1875; WEGNER Palaeontograph **60** p. 200.—*S. triangulata* **sp. n.**, from *Trigonia schwarzi* zone, Tendagura; LANGE Arch. Biontolog. **3** H. 4 p. 259 pl. xv fig. 23.

Sinistrella **gen. n.** for *Spirorbis verruca* p. 478; CHAMBERLIN Mem. Mus. Harvard **48.**

Sonatsa **gen. n.** (*Maldanidae*) p. 415; *meridionalis* **sp. n.** p. 416 pl. lxxi figs. 1–8; CHAMBERLIN T.c.

Spirorbella **gen. n.** for *Spirorbis marioni* p. 478; CHAMBERLIN T.c.

Spirorbides **gen. n.** for *Spirobis cancellatus*, p. 478; CHAMBERLIN T.c.

Spirobranchus tetraceros; JOHANSSON Stockholm Vet.-Ak. Handl. **58** No. 7 p. 7 fig. 2 1–7.

Sternaspis major **sp. n.** p. 406, pl. lxxviii fig. 10; CHAMBERLIN Mem. Mus. Harvard **48.**

Sthenelais minor Pruv. and Rac., **var. n.** *digitata*; FAUVEL Arch. Zool. exp. **58** p. 344.

†*Stoma* **gen. n.** *hians* **sp. n.** Schweden Ordovician; HADDING Lund. Univ. Årsskr. N.F. **9** Afd. 2 No. 15 p. 29 pl. i fig. 2.

Syllis gracilis Gr., fragmentation followed by regeneration; MESNIL & CAULLERY C. R. Acad. Sci. **169** pp. 926–929.—*S. remex* **sp. n.** p. 175, pl. xxi fig. 5, pl. xxii figs. 4–6; CHAMBERLIN Mem. Mus. Harvard **48.**

Synelmis **gen. n.** (*Syllidae*) p. 176, *simplex* **sp. n.** p. 177 pl. xxviii figs. 1–5; CHAMBERLIN T.c.

Telake **gen. n.** (*Glyceridae*) p. 345, *epipolasis* **sp. n.** p. 346, pl. lxiii figs. 4–8, pl. lxiv fig. 1; CHAMBERLIN T.c.

†*Tentaculites jaculus* **sp. n.** Devonian Brazil; CLARKE Monogr. Serv. Geol. mineralog. Brazil **1** p. 88 pl. viii figs. 5, 6.

Terebella panamena **sp. n.** p. 424, pl. lxxix figs. 7, 8; CHAMBERLIN Mem. Mus. Harvard **48.**

Terebellides eurystethus **sp. n.** p. 438, pl. lxxx figs. 7–15; CHAMBERLIN T.c.

Tetreres nesiotes **sp. n.** p. 490, pl. lxxv figs. 1–7; CHAMBERLIN T.c.

Thelepella **gen. n.** for *Terebella cetrata* p. 422; CHAMBERLIN T.c.

Thelepus pericensis **sp. n.** p. 437 pl. lxxx figs. 4–6; CHAMBERLIN T.c.

Therochaeta **gen. n.** (*Flabelligeridae*), for *Stylariodes collarifer*, p. 397; CHAMBERLIN T.c.

Tomopteris innatans p. 159, pl. xxvii fig. 3, *eura* p. 160, figs. 1 & 2, *idiura* p. 161, figs. 4–6, **spp. n.**; CHAMBERLIN T.c.

Torea pelagica **sp. n.** p. 131 pl. xxiv figs. 4–9; CHAMBERLIN T.c.

†*Trachyderma* sp. cf. *crassituba* Chapm., Silurian, notes on, occurrence of soft parts; CHAPMAN Proc. R. Soc. Victoria **31** p. 315 pls. xiii & xiv *p.p.*

Travisia profundi **sp. n.** p. 387, pl. lxvii figs. 1–4; CHAMBERLIN Mem. Mus. Harvard **48.**

Uncinereis **gen. n.** (*Nereidae*) p. 215, *subita* **sp. n.** p. 216, pl. xxx figs. 1–4; CHAMBERLIN T.c.

Urosiphon **gen. n.** for *Ammotrypane cylindrocaudatus*, p. 384; CHAMBERLIN T.c.

Oligoch

(*c*) **Myzostomida.**

Mesomyzostoma **gen. n.,** *reichenspergeri* **sp. n.,** endoparasitic in *Amphimetra discoidea*, described; REMSCHEID Abh. Senckenb. Ges. **35** p. 212 pl. xiii fig. 4.

Myzostoma, analytical classification of all species, account of new forms, Aru and Kei Islands, pp. 178–226, *M. adhaerens* p. 182 pl. xii figs. 1–4, *sulcatum* p. 189 pl. xiii fig. 6, *bicorne* p. 192, fig. 5, *aruense* p. 194, pl. xii figs. 5 & 6, *fasciatum* p. 196, pl. xiii fig. 3, *cristatum* p. 197, fig. 1, *mertoni* p. 200, fig. 2, *taeniatum* p. 202, pl. xiv figs. 3, 5–7, **spp. n.**; REMSCHEID Abh. Senckenb. Ges. **35.**

(*d*) **Oligochaeta.**

Oligochaetes common to the high regions of Switzerland and Scandinavia, with notes; PIGUET Rev. Suisse Zool. **27** pp. 1–17.

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Cambarincola vitrea p. 257 pl. x fig. 3, text-figs. 14, 15, *inversa* p. 259 pl. xi fig. 3, text-figs. 16, 17, *chirocephala* p. 263 text-figs. 18, 19, **spp. n.,** diagnosis and hosts; ELLIS T.c.

Chamaedrilus glandulosus (*Marionina g.*, Mich.), new to Britain; FRIEND Nature **104** p. 174.

Maoridrilus megacystis p. 35, text-figs. 1, 2, *thomsoni* p. 36 figs. 3–5, **spp. n.,** occurrence and diagnoses: BENHAM Trans. N. Zealand Inst. **51.**

Mesenchytraeus, key to N. American species, *M. hydrius* **sp. n.,** described; WELCH Trans. Amer. Microsc. Soc. **38** pp. 175–188 pl. xvii.

Mesoporodrilus lacustris (Verrill), Lake Superior, described; SMITH Proc. Biol. Soc. **32** p. 35.

Perieodrilus durvilleanus **sp. n.,** occurrence and diagnosis; BENHAM Trans. N.Z. Inst. **51** p. 38 text-figs. 6–8.

Pheretima posthuma, new type of nephridial system in, described; BAHL Q. J. Microsc. Sci. **64** pp. 67–119 pls. vi–viii.—*Pheretima* and other *Megascolecidae*, account of prostate glands; STEPHENSON & RAM Trans. R. Soc. Edinb. **52** pp. 435–453 1 pl.

Polytoreutus chaloneri p. 156 text-figs. 10–12, *multiporus* p. 161 figs. 13–18, **spp. n.** Brit. E. Africa; SMITH & GREEN Proc. U. S. Nat. Mus. **55.**

Pterodrilus mexicanus, *durbini* **spp. n.,** hosts and occurrence; ELLIS Proc. U.S. Nat. Mus. **55** p. 254 pl. xi fig. 1 and text-figs. 12 13.

Rhynchelmis elrodi **sp. n.,** from Montana, described; SMITH & DICKEY Trans. Amer. Micr. Soc. **37** pp. 207–214 pl. xvi.

Sparganophilus elongatus Friend, for *Helodrilus elongatus*, Friend, occurrence, England, and note; FRIEND Nature **103** p. 426.

Syngenodrilus **gen. n.** (*Moniligastridae*) *lamuensis* **sp. n.,** Brit. E. Africa, described; SMITH & GREEN Proc. U.S. Nat. Mus. **55** p. 146 text-figs. 1–8.

Xironodrilus **gen. n.** (*Branchiobdellidae*) p. 243, *formosus* **sp. n.** p. 244 pl. xi fig. 2 and text-figs. 3 & 4, host and locality; ELLIS Proc. U.S. Nat. Mus. **55.**

Xironogiton **gen. n.** (*Branchiobdellidae*) p. 247, *occidentalis* p. 248 pl. xii fig. 2, text-figs. 7, 8, *oregonensis* p. 249 pl. x figs. 1, 2, pl. xii fig. 1, **spp. n.,** latter, with subsp. nn. *oregonensis* p. 251 text-fig. 9, *pectinatus* p. 251 pl. xii fig. 3 and text-figs. 10, 11; ELLIS T.c

(*e*) **Hirudinea.**

Ozobranchus branchiatus (Menzies), anatomy described; MACCALLUM & MACCALLUM Bull. Amer. Mus. Nat. Hist. **38** pp. 395–408 pls. xxxiii–xxxviii.

(*f*) **Echiuroidea.**

Archibonellia **gen. n.** *michaelseni* **sp. n.**, S.W. Australia, diagnosed; FISCHER Zool. Anz. **50** p. 283 text-figs. 4–6.

Bonellia viridis, sexual differentiation, morphological and physiological considerations; BALTZER Mitth. Zool. Stat. Neapel **22** pp. 1–44 9 text-figs.

Pseudobonellia **gen. n.** (*Bonelliidae*) *biuterina* **sp. n.**, from Gt. Barrier Reef, described; JOHNSTON & TIEGS Proc. Linn. Soc. N.S.W. **44** pp. 213–229 pls. ix–xi.

Thalassema microrhynchus **sp. n.**, from Orissa, diagnosed; PRASHAD Rec. Ind. Mus. **16** p. 399 1 fig.

2. GEPHYREA (SIPUNCULOIDEA).

Aspidosiphon hartmeyeri **sp. n.**, S.W. Australia, diagnosed; FISCHER Zool. Anz. **50** p. 281 text-figs. 1–3.

Lithacrosiphon kükenthali **sp. n.**, description; FISCHER T.c. pp. 289–293 5 text-figs.

Siphonosoma crassum **sp. n.** Spengel, S.W. Australia, diagnosed; FISCHER T.c. p. 279.

3. PHORONIDEA.

Phoronopsis albomaculata, transverse fission described; GILCHRIST Q. J. Microsc. Sci **63** pp. 493–507 pl. xxix.

4. PTEROBRANCHIATA.

Cephalodiscus anderssoni Grav. p. 77 text-figs. B & 1–10, *nigrescens* Lank. p. 75, text-fig. A, described; GRAVIER 2me expéd. antarctique française (1908–1910).

VII. BRACHIOPODA AND BRYOZOA

BY

F. W. EDWARDS.

(a) BRACHIOPODA

CONTENTS.

	PAGE
I. Titles=2000	2
II. Subject Index	4
General = 2003	4
Structure = 2007	4
Physiology = 2011 (vacant).	
Development = 2015 (vacant).	
Ethology = 2019 (vacant).	
Aetiology = 2023	4
Distribution = 2027 :—	
(α) Recent	4
(β) Fossil	4
III. Systematic Index = 2031	5

1.—TITLES.

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II.—SUBJECT INDEX.

GENERAL. 2003

Burning fossils; **Buckman, 2.**
Colour in fossils; **Richter, 39, 40.**
Terminology; **Buckman, 3.**
Technique; **Jackson, 18.**

STRUCTURE. 2007

Stringocephalus; **Wedekind, 45.**
Jurassic *Brachiopoda*; **Buckman, 2.**
Shell; **Richter, 40.**

EVOLUTION. 2023

Jurassic *Brachiopoda*; **Buckman, 2.**

DISTRIBUTION. 2027

(β) Fossil.

Palaeozoic, General.
Kentucky; **Butts, 4**; **Miller, 36**: New Hampshire; **Lahee, 21a.**

Cambrian.
Indochina; **Mansuy, 28, 30.**

Ordovician.
Indochina; **Mansuy, 29.**
U.S.A.; **McEwan, 23**; **Clark, 7.**

Silurian.
Gotland; **Hede, 15**; **Hedström, 17.**
Scandinavia; **Hede, 16.**
Spain; **Born, 1.**
Indochina; **Mansuy, 26.**
Ohio; **Foerste, 12.**
Canada; **Williams, 46.**

Devonian.
Indochina; **Mansuy, 24, 26, 33.**
Tennessee; **Dunbar, 10.**
Iowa; **Fenton, 11.**
Argentine; **Clarke, 8**

Carboniferous.
England; **Jackson, 18.**
Indochina; **Mansuy, 24, 27.**
Missouri; **Girty, 13.**
Kentucky; **Butts, 4**; **Ulrich, 44.**

Permian.
Indochina; **Mansuy, 32.**

Triassic.
Indochina; **Mansuy, 26.**
Lombardy; **Mariani, 34.**

Jurassic.
England; **Buckman, 2**; **Richardson, 37.**
Spain; **Jimenez de Cisneros, 19.**
Italy; **Caterini, 6.**
Switzerland (Gosau); **Kittl, 21.**
E. Africa; **Lange, 22.**
Indochina; **Mansuy, 25.**
Burma; **Buckman, 2.**

Cretaceous.
Sweden; **Hadding, 14.**

Tertiary.
Tasmania; **May, 35.**

III.—SYSTEMATIC. 2031

†*Rhynchonellidae.* BUCKMAN, Pal. Indica **3** 2 1917, defines the following new generic divisions of the old genus *Rhynchonella;* most of the names were proposed, but not defined except by indication of the genotype, in the author's preliminary publications (*see* Zool. Record 1914 and 1915): *Pisirhynchia, Holcorhynchia* p. 28, *Gnathorhynchia* p. 29, *Calcirhynchia, Sphenorhynchia* p. 30, *Kallirhynchia* p. 31, *Tropiorhynchia* p. 33, *Piarorhynchia* p. 34, *Cuneirhynchia* p. 35, *Curtirhynchia, Homoeorhynchia* p. 36, *Rhynchonelloidea* p. 38, *Costirhynchia* p. 39, *Grandirhynchia* p. 40, *Tetrarhynchia* p. 41, *Quadratirhynchia* p. 42, *Gibbirhynchia* p. 43, *Rudirhynchia* p. 44, *Stolmorhynchia* p. 46, *Ptyctorhynchia* p. 47, *Globirhynchia* p. 48, *Burmirhynchia* p. 49, *Rhactorhynchia* p. 50, *Goniorhynchia Russirhynchia* p. 52, *Cymatorhynchia* p. 53, *Kutchirhynchia* p. 54, *Maxillirhynchia* p. 55, *Parrirhynchia* p. 56, *Trichorhynchia, Capillirhynchia* p. 58, *Furcirhynchia, Lineirhynchia* p. 59, *Rimirhynchia* p. 60, *Prionorhynchia* p. 62, *Squamirhynchia* p. 63, *Granulirhynchia* p. 64, *Flabellirhynchia* p. 65, *Cryptorhynchia* p. 66, *Nannirhynchia* p. 67, *Striirhynchia* p. 68, *Acanthirhynhia* p. 69.

†*Terebratulidae.* BUCKMAN, Pal. Indica **3** 2 1917, defines the following new generic divisions of the old genus *Terebratula;* most of the names were proposed, but not defined except by indication of genotype, in the author's preliminary publications (*see* Zool. Record 1914 and 1915): *Linquithyris* p. 99, *Euidothyris, Ptyctothyris* p. 101, *Avonothyris* p. 102, *Charltonithyris* p. 106, *Lobothyris* p. 107, *Cereithyris, Stiphrothyris* p. 109, *Strouditthyris* p. 111, *Loboidothyris* p. 112, *Kutchithyris* p. 113, *Lophrothyris* p. 114, *Tubithyris, Sphaeroidothyris* p. 115, *Goniothyris* p. 117, *Plectothyris* p. 121, *Plectoidothyris* p. 122, *Tegulithyris* p. 123, *Trichothyris* p. 125, *Holcothyris* p. 125, *Rugithyris* p. 127, *Cheniothyris* p. 128.

†*Acanthothyris globosa* **sp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 230.

†*Ambocoelia lobata* **sp. n.** Missouri Carboniferous, GIRTY Missouri Bur. Geol. **13** 1915 p. 351.

†*Athyris sinensis* **sp. n.** Yunnan Carboniferous, MANSUY Mem. Serv. géol. Indochine **3** 2 1914 p. 8.—†*A. planosulcata* mut. n. *indosinensis,* MANSUY *T.c.* **3** 3 1914 p. 25.

†*Atrypa reticularis* varr. n. *elongata* p. 380, *hillsboroensis* p. 381, Ohio Silurian, FOERSTE Ohio J. Sci. **19**.—*A. parhsi* **sp. n.** Canada Silurian, WILLIAMS Canada Geol. Surv. Mem. **111** p. 120.

†*Aulacothyris inflata,* MANSUY **25**.

†*Avonothyris sulcifera, nannodes, obovalis, bella, depressa, plicatina, corrugata, trigonata, corpulenta* **spp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 298.

†*Billingrella tonkiniana* **sp. n.** Tonkin Cambrian, MANSUY Mém. Serv. géol. Indochine **4** 2 1915 p. 7.—†*B. loungcoensis* **sp. n.** Indochine Cambrian, MANSUY *T.c.* **5** 1 1916 p. 13.

†*Burmirhynchia depressa* p. 140, *touchei* p. 141, *hpalaiensis* p. 142, *shanensis* p. 143, *hsenwienensis* p. 144, *hsipawensis* p. 145, *orientalis, obesa* p. 147, *subglobosa* p. 148, *costata* p. 150, *subcostata, pinguis* p. 151, *dattai* p. 152, *ovalis* p. 153, *subovalis* p. 154, *guttula* p. 155, *gutta* p. 156, *globulus, pyriformis* p. 157, *senilis* p. 158, *inaequalis* p. 159, *parva* p. 160, *seengensis* p. 161, *namtuensis* p. 162, *bawgyoensis* p. 163, *longa* p. 164, *irregularis* p. 165, *pangwolengensis* p. 166, *nammaensis* p. 167, *regularis* p. 168, *elegans* p. 169, *rotunda* p. 164, *transversalis, lenglawngensis* p. 171, *namyanensis* p. 172, *pilgrimi* p. 173, *fluminalis* p. 174, *asiatica* p. 175, *subtrigonalis, nahsaiensis* p. 176, Burma, *occidentalis, polystema, injusta, petula, oxoniensis, tumida, glomerosa, gibba, ornithea, vagans* p. 221, *dromio, hopkinsi, restituta, turgida* p. 222, England, *calculosa* p. 222, France, **spp. n.** Jurassic, BUCKMAN Pal. Ind. **3** 2 1917.

†*Calcirhynchia calcarea* **sp. n.** England Jurassic, BUCKMAN *T.c.* p. 292.

†*Cardinihynchia* **gen. n.** *Dimerellidae,* BUCKMAN *T.c.* p. 74.

†*Cereithyris ovalis* **sp. n.** England Jurassic, BUCKMAN *T.c.* p. 233.

†*Charltonithyris wilsoni* **sp. n.** England Jurassic, BUCKMAN *T.c.* p. 234.

†*Cheniothyris latifrons, angusta* **spp. n.** England Jurassic, BUCKMAN *T.c.* p. 235.

†*Chonetes hoabinhensis* **sp. n.** Indochina Devonian, MANSUY Mém. Serv. géol. Indochine **3** 2 1914 p. 58.—†*C. lacroixi, lantenoisi* p. 46, *indosinensis* p. 47, **spp. n.** Indochine ? Devonian, MANSUY *T.c.* **5** 4 1916.—†*C. gotlandicus* **sp. n.** Gotland Silurian, HEDE Serv. géol. Unders. Årsbok **1917** [1918] Ser. C. No. **281** p.16.—†*C. scanicus* **sp. n.** Scandinavian Silurian, HEDE Geol. Fören. Stockholm For. **41** pp. 125 152.

†*Clavigera*, synonymy, THOMSON **43**.

†*Costirhynchia costigera* **sp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 291.

†*Cryptorhynchia bradfordensis, vaughani, avonensis* **spp. n.** England Jurassic, BUCKMAN *T.c.* p. 228.

†*Curtirhynchia extensa* **sp. n.** England Jurassic, BUCKMAN *T.c.* p. 228.

†*Cymatorhynchia humilis* **sp. n.** England Jurassic, BUCKMAN *T.c.* p. 229.

†*Cyrtina glabra* **sp. n.** Canada Devonian, KINDLE Canada Dept. Mines Mus. Bull. **29** p. 4.

†*Dalmanella eugeniensis* **sp. n.** with var. *palæoelegantula* Canada Silurian, WILLIAMS Canada Geol. Serv. Mem. **111** p. 118.

†*Diaphragmus montesanae* **sp. n.** Kentucky Carboniferous, ULRICH Kentucky Geol. Surv. Mississ. Form. **1917** p. 250.

†*Dictyothyris laneolata* **sp. n.** England Jurassic, BUCKMAN Pal. Ind **3** 2 1917 p. 235.

†*Dielasma douvillei* p. 28, *indosinense* p. 29, **spp. n.** Indochina Carboniferous, MANSUY Mém. Serv. géol. Indochine **3** 3 1914.—†*D. baolacense* **sp. n.** Indochina Permian, MANSUY *T.c.* **5** 4 1916 p. 37.

Dimerellidae **fam. n.** for *Rhynchonellina* and allies, BUCKMAN Pal. Ind. **3** 2 1917 p. 72.

†*Euidothyris holcophora* **sp. n.** England Jurassic, BUCKMAN *T.c.* p. 234.

†*Flabellirhynchia alba* p. 229, *delicata* p. 230, **spp. n.** England Jurassic, BUCKMAN *T.c.*

†*Furcirhynchia furcata* **sp. n.** England Jurassic, BUCKMAN *T.c.* p. 229.

†*Goniorhynchia goniaea, contracta* **spp. n.** England Jurassic, BUCKMAN *T.c* p. 229,

†*Grandirhynchia laevigata, grandis* **spp. n.** England Jurassic, BUCKMAN *T.c.* p. 228.

†*Hectoria*, Synonymy, THOMSON **43**.

†*Heimia protracta* **sp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 234.

†*Holcothyris sulcata* p. 187, *concava, excavata* p. 188, *trigonalis* p. 189, *rostrata* p. 190, *delta* p. 191, *acuminata, angulata* p. 192, *subangulata* p. 193, *suboralis* p. 194, *pinguis* p. 195, *plecta* p. 196, *curvata* p. 197, *macra* p. 198, *angusta, elliptica* p. 199, *transversalis, expansa* p. 201, *flexa* p. 202, *undulata* p. 203, *obscura* p. 205, *dubia* p. 206, **spp. n.** Burma Jurassic, BUCKMAN *T.c.*

†*Kallirhynchia distendens, nudata, expansa, superba, orbis, lauta, bella, decora, deliciosa, pagana, communalis, obtusa* p. 223, *amoena, elegantissima, crassicosta, exalta, constricta, indentata, anglica, globularis* p. 224, **spp. n.** England Jurassic, BUCKMAN *T.c.*

†*Kingena transiens* **sp. n.** E. Africa Jurassic, LANGE Arch. Biont. **3** 4 1914 p. 202.

†*Koninckella canavarii* **sp. n.** Italy Lias, CATERINI Atti Soc. Tosc. Sci. Nat. **32** p. 157.

†*Koninckina convexa* p. 159, *intermedia* p. 161, **spp. n.** Italy Lias, CATERINI *Tc.*.

†*Kutchirhynchia* characters, *egregia, fulva, formosa* England, *idonea* France, **spp. n.** Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 233.

†*Leptaenoidea* **gen. n.** near *Leptaenisca* p. 2 for *silurica* **sp. n.** Gotland Silurian p. 5, HEDSTRÖM Sver. geol. Unders. Årsbok **1916** [1917] Ser. C No **276**.

†*Liljevallia* **gen. n.** near *Brachyprion* p. 9, for *gotlandica* **sp. n.** Gotland Silurian p. 12, HEDSTRÖM *T.c.*

†*Lineirhynchia parviplicata* **sp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 229.

†*Linguithyris umbonata* **sp. n.** England Jurassic, BUCKMAN *T.c.* p. 234.

†*Lingula tonkinensis* **sp. n.** Tonkin Trias, MANSUY Mém. Serv. géol. Indochine **3** 2 1914 p. 69.

†*Loboidothyris latovatis* **sp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 295.

†*Lophrothyris lophus, contracta, wistleyensis* **spp. n.** England Jurassic, BUCKMAN *T.c.* p. 233.

†*Lyttonia*, SATO **41**.—†*L. nobilis*, MANSUY **24**.

†*Marginifera muricata* var. n. *missouriensis*, GIRTY Missouri Bur. Geol. **13** 1915 p. 350.

†*Martinia dongquenensis* **sp. n.** Indochina Permian, MANSUY Mém. Serv. géol. Indochine **5** 4 1916 p. 33.

†*Maxillirhynchia jucunda, implicata* **spp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 229.

†*Meristella miareensis* **sp. n.** Tonkin Devonian, MANSUY Mém. Serv. géol. Indochine **5** 4 1916 p. 17.

†*Nannirhynchia subpymaea, milvina* **spp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 230.

†*Newberrya granulosa*, RICHTER **39**.

†*Notothyris lochardi* **sp. n.** Indochina Permian, MANSUY Mém. Serv. géol. Indochine **5** 4 1916 p. 38.—*N. warthi* mut. n. *cambodgiensis* Indochina Carboniferous, MANSUY *T.c.* **3** 3 1914 p. 30.

†*Orbiculoidea tonkinensis* **sp. n.** Tonkin Silurian, MANSUY *T.c.* **3** 2 1914 p. 62.

†*Orthis* (*Dinorthis*) *annamitica* **sp. n.** Indochina Ordovician, MANSUY *T.c.* **4** 3 1915 p. 12.

†*Orthotetes adnata* p. 6, *laevis* p. 8, **spp. n.** Gotland Silurian, HEDSTRÖM Sver. geol. Unders. Årsbok **1916** [1917] Ser. C. No. **276**.—†*O. deprati* **sp. n.** Yunnan Devonian, MANSUY Mem. Serv. géol. Indochine **3** 2 1914 p. 7.

Pantellaria **gen. n.** type *Megerlia monstruosa*, DALL Proc. Biol. Soc. Wash. **32** p. 251.

†*Parvirhynchia pellucida* **sp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 229.

†*Platystrophia uniplicata, precedens* p. 405, *trentonensis* with varr. *champlainensis, perplana* p. 407, *hermitagensis* p. 409, *extensa, elegantula* p. 410, *elegantula* varr. n. *triplicata, amplisulcata* p. 411, *amoena* with var. n. *longicardinalis* p. 412, *globosa, rhynchonelliformis* p. 413, *juvenis* p. 416, *strigosa* p. 417, *nitida* p. 418, *corryvillensis, sublaticosta* p. 419, *foerstei* with var. n. *ampla* p. 420, *attenuata* p. 421, *cumingsi* p. 422, *elkhornensis* p. 426, *preponderosa* p. 427, *fervalensis* p. 428, **spp. n.**, *daytonensis* var. n. *laurelensis* p. 406, *precursor* varr. n. *latiformis, angustata* pp. 415-16, *ponderosa* var. n. *arnheimensis* p. 428, *unicostata* var. n. *crassiformis* p. 434, *cypha* varr. n. *tumida, arcta, bellatula* pp. 436–438, U.S. Ordovician, MCEWAN Proc. U.S. Nat. Mus. **56**.

†*Plectambonites yenlacensis* **sp. n.** Tonkin ? Devonian, MANSUY Mém. Serv. Géol. Indochine **5** 4 1916 p. 49.

†*Productus*, list of American species, GIRTY Missouri Bur. Geol. **13** 1915 p. 345.—†*P. humerosus*, JACKSON **18**.—*P. khmerianus* **sp. n.** Indochina Carboniferous, MANSUY Mém. Serv. géol. Indochine **3** 3 1914 p. 17.

†*Pseudoglossothyris nana* **sp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 234.

†*Psioidea*, synonymy, genotype designated, THOMSON **43**.

†*Pterophloios emmrichi*, MARIANI **34**.

†*Pustula*, list of American species, GIRTY Missouri Bur. Geol. **13** 1915 p. 348.

†*Quadratirhynchia sphaeroidalis* **sp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 228.

†*Rafinesquina douvillei* **sp. n.** Tonkin ? Devonian, MANSUY Mém. Serv. géol. Indochine **5** 4 1916 p. 49.—†*R. orientalis* **sp. n.** Tonkin Ordovician, MANSUY *T.c.* **4** 3 1915 p. 11.

†*Rastelligera*, synonymy, THOMSON **43**.

†*Rectirhynchia* **gen. n.** *Dimerellidae* p. 74, *ellipsoides* **sp. n.** England Jurassic p. 230, BUCKMAN Pal. Ind. **3** 2 1917.

†*Rhactorhynchia brevis, rhacta, impar, diffusa, regalis, tumifacta, turgidula* p. 226, *diducta, foecunda, coriniensis, argillacea* p. 227 **spp. n.** England Jurassic, BUCKMAN *T.c.* 1917.

†*Rhynchonella* (*Norella*) *tonkiniana* **sp. n.** Indochina Trias, MANSUY Mém. Serv. géol. Indochine **3** 2 1914 p. 72.—*R.* (*Pugnax*) *pugnus*, RICHTER **39.**—†*R. rauffi* **sp. n.** E. Africa Jurassic, LANGE Arch. Biont. **3** 4 1914 p. 197.

†*Rhynchonellina gosaviensis* **sp. n.** Gosau Jurassic, KITTL Ann. Hofmus. Wien. **30** 1916 p. 53.

†*Rhynchospira geniculata* **sp. n.** Indochina Carboniferous, MANSUY Mém Serv. géol. Indochine **3** 3 1914 p. 26.

†*Rhynchotreta cabotensis* **sp. n.** Ontario Silurian, WILLIAMS Canada Geol. Surv. Mem. **111** p. 120.—†*R. williamsi* **sp. n.** Ontario Silurian, FOERSTE in WILLIAMS *T.c.* p. 126.

†*Rimirhynchia tardata, elevata, rimosiformis* **spp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 229.

†*Rudirhynchia rudis* **sp. n.** England Jurassic, BUCKMAN *T.c.* p. 228.

†*Schuchertella prosseri* **sp. n.** Ohio Silurian, FOERSTE Ohio J. Sci. **19** p. 375.

†*Spaeriodothyris globisphaeroidalis* **sp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 294.

†*Sphenorhynchia subplicata* p. 178, *tatiensis* p. 179, Burma, *aviformis* p. 228, England, **spp. n.** Jurassic, BUCKMAN *T.c.*

†*Spirifer*, validity, THOMSON **42.**—†*S. bacbounensis* p. 6, *dongvanensis* p. 10, **spp. n.** Tonkin Ordovician, MANSUY Mém. Serv. géol. Indochine **4** 3 1915.—†*S. sikaensis* **sp. n.** Tonkin Devonian, MANSUY *T.c.* **5** 4 1916 p. 16.

†*Spiriferina cambodgiensis* **sp. n.** p. 24, *insculpta* mut. n. *indosinensis* p. 23, Indochina Carboniferous, MANSUY *T.c.* **3** 3 1914.

†*Stolmorhynchia stolidota* **sp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 228.

†*Stricklandinia manitonensis* **sp. n.** Canada Silurian, WILLIAMS Canada Geol. Surv. Mem. **111** p. 124.

†*Strophonella decewensis* **sp. n.** Canada Silurian, WILLIAMS *T.c.* p. 124.

†*Syringotyhris*, synonymy, THOMSON **42.**

†*Terebratula carnea* var. n. *tenuis* p. 9, *subrotunda* var. n. *nilssoni* p. 10, *longirostris* var. n. *lundensis* p. 19, *depressa* var. n. *visae* p. 20, Sweden Cretaceous, HADDING Palaeontographica **63.**—†*T. cimex* **sp. n.**, RICHTER Jahrb. Nassau Ver. **70** pp. 145–161; ref. to *Newberrya granulosa*, RICHTER Senckenbergiana **1** pp. 83–96.

†*Terebratuloidea crassirostris* **sp. n.** Indochina Carboniferous, MANSUY Mém Serv. géol. Indochine **3** 3 1914 p. 28.

†*Trichorhynchia dichotoma* **sp. n.** England Jurassic, BUCKMAN Pal. Ind. **3** 2 1917 p. 229.

†*Whitfieldella cataractensis* **sp. n.** Canada Silurian, WILLIAMS Canada Geol. Surv. Mem. **111** p. 121

†*Zeilleria hierlatzica*, JIMENEZ DE CISNEROS **19.**

VII (b) BRYOZOA

CONTENTS.

PAGE

I. TITLES 10

II. SUBJECT INDEX.

General = 2003 (vacant).

Structure = 2007 (vacant).

Physiology = 2011 (vacant).

Development = 2015 (vacant).

Ethology = 2019 (vacant).

Variation and Aetiology = 2023 11

Distribution = 2027 :—

(a) Recent :—

(α) Marine 11

(β) Non-Marine 11

(b) Fossil 11

III. SYSTEMATIC INDEX 11

I.—TITLES.

Annandale, N. Sponges, *Hydrozoa* and *Polyzoa* of Seistan. Calcutta Rec. Ind. Mus. **18** 1919 (83–97) pl. xii. **1**

Barroso, M. J. Notas sobre briozoos españoles. Madrid Bol. Soc. Esp. Hist. Nat. **19** 1919 (200–204 340–347) text-figs. **2**

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II.—SUBJECT INDEX.

EVOLUTION. 2023

Extinction in fossils ; **Lang, 12.**

Kelestominae ; **Lang, 11.**

Pelmatoporinae ; **Lang, 10.**

DISTRIBUTION. 2027

(*a*) RECENT.

(*α*) *Marine.*

Spain ; **Barroso, 2.**

Nice ; **Caziot, 7.**

(*β*) *Non-Marine.*

Seistan ; **Annandale, 1.**

(*b*) FOSSIL.

Palaeozoic, General.

Kentucky ; **Butts, 4, 5 ; Miller, 16.**

Ordovician.

Esthonia ; **Bekker, 3.**

Indochina ; **Mansuy, 15.**

Silurian.

Canada ; **Williams, 19.**

Carboniferous.

Missouri ; **Girty, 8.**

Kentucky ; **Butts, 4 ; Ulrich, 17.**

Indochina ; **Mansuy, 14.**

Cretaceous.

Rügen ; **Lang, 11.**

III.—SYSTEMATIC.

Batopora multiradiata, WATERS **18.**

†*Batostomella*, relationships, zooecia ; *greeniana* **sp. n.** Missouri Carboniferous, GIRTY Missouri Bur. Geol. **13** 1915 p. 326.

†*Fenestella exserta* p. 195, *cavea* p. 197, **spp. n.** Australia Permo-Carboniferous, LASERON J. R. Soc. N. S. Wales **52.**

†*Fistulipora zonata* **sp. n.** Missouri Carboniferous, GIRTY Missouri Bur. Geol. **13** 1915 p. 322.

Hippaliosina **gen. n.** type *Escharella rostrigera* Smitt, *brevirostris*, *laxipora*, nom. n., CANU Bull. Soc. géol. **18** p. 88.

†*Kelestoma*, discussion of genus, *gradatum* **sp. n.** Rügen Cretaceous, LANG Quart. J. Geol. Soc. **74** p. 213.

†*Liopora* **gen. n.** *Batostomellidae* for *subnodosa* **sp. n.** Missouri Carboniferous, GIRTY Missouri Bur. Geol. **13** 1915 p. 341.

Mamillopora simplex, *bidentata*, *crassilabris*, WATERS **18.**

†*Morphasmopora jukeri-brownei* (Brydone), LANG **10.**

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VIII. MOLLUSCA

ARRANGED BY

H. B. PRESTON.

CONTENTS

	PAGE
I. Titles	5
II. Subject Index:—	
General = 2203:—	
Historical	21
Biography	21
Bibliography	21
General Treatises and Monographs	21
Ethno-Conchology...	22
Local Lists	22
Museums, Collections, Expeditions	22
Nomenclature	22
Technique	22
Miscellanea...	22
Structure = 2207:—	
General	22
Nervous System	22
Shell	22
Muscular System	22
Alimentary System, Radula and Jaws	22
Respiratory Organs	22
Reproductive Organs	22
Sense Organs	22
Physiology = 2211:—	
Glandular Secretions, Pigments	22
Digestive Organs	22
Generative Organs...	22
Sense Organs	22
Muscular System	22
Nervous System	22
Experimental	22

PAGE

Development = 2215 :—

General ... ... } 22
Oogenesis and Ovum ... ... }
Spermatogenesis and Spermatozoon ... ...
Embryology ... ...
Parthenogenesis ... ... } 23
Regeneration ... ...
Shell ... ...

Ethology = 2219 :—

General ... ...
Movements, Locomotion ... ...
Enemies, Defence and Protection ... ...
Feeding Habits ... ...
Breeding Habits ... ...
Boring Habits ... ...
Coloration ... ... } 23
Habitat ... ...
Acclimatisation, etc. ... ...
Hibernation and Æstivation ... ...
Parasitism, Commensalism, Parasites, etc. ... ...
Evolution ... ...
Economics ... ...

Variation and Ætiology = 2223 :—

General Treatises ... ... } 23
Teratology, Phylogeny and Relationship ... ...
Evolution ... ... } 24
Variation in Form... ... ...

Distribution = 2227 :—

General 24

(a) Recent :—

(α) Marine :—

Arctic Ocean ... ...
North Atlantic Ocean, Caribbean Sea and Gulf of Mexico ... ...
Mediterranean Sea, Black Sea ... ...
South Atlantic Ocean... ... ... } 24
Indian Ocean, Red Sea ... ...
Malaysia ... ...
Pacific Ocean ... ...
Southern Ocean ... ...

PAGE

(β) Non-Marine :—

Europe as a whole ... ...
Norway = 2227 *da* ... ...
British Islands = 2227 *de* ... .
France = 2227 *df* ... ...
Italy = 2227 *dh* ... ...
Switzerland = 2227 *di* ... ...
Balkan Peninsula = 2227 *dl*... ... ... } 24
Malta = 2227 *dm* ... ...
Eastern Siberia = 2227 *eab* ... ...
British India, etc. = 2227 *ef* ... ...
Siam = 2227 *ee* ... ...
Malaysia, Philippine Islands, etc. = 2227 *eg*
Persia = 2227 *eh* ... ...
China and Corea = 2227 *eb* ... ...
Japan = 2227 *ec* ... ...
Asiatic Turkey = 2227 *ei* ... ...
Africa as a whole ... ...
N. Africa = 2227 *fa* ... ...
Belgian Congo = 2227 *fc* ... ...
E. and C. Africa, etc. = 2227 *ff* ... ...
S. Africa = 2227 *fg* ... ...
Madagascar, etc. = 2227 *fh*... ... ...
North America as a whole ... ...
Alaska = 2227 *ga* ... ...
Canada = 2227 *gb* ... ...
N.E. United States = 2227 *gg* ... ...
S.E. United States = 2227 *gh* ... ... } 25
W. United States = 2227 *gi*... ... ...
Mississippi River System = 2227 *gk* ...
Mexico = 2227 *gl* ... ...
Central America = 2227 *hb*... ... ...
West Indies = 2227 *hc* ... ...
Venezuela = 2227 *hd* ... ...
Ecuador = 2227 *he* ... ...
Peru = 2227 *hf* ... ...
Argentina and Uruguay = 2227 *hi* ... ...
Queensland = 2227 *id* ... ...
S. Australia = 2227 *ig* ... ...
W. Australia = 2227 *ih* ... ...
N. Atlantic Ocean = 2227 *la* ... ...
Pacific = 2227 *n* ... ...

(b) Fossil :—

General 25
Quaternary ... ... } 26
Cainozoic ... ...
Pleistocene ... ...
Tertiary ... ...

PAGE

(b) Fossil—*continued*:—

Pliocene ... ... }
Miocene ... ... |
Oligocene ... ... |
Eocene ... ... |
Cretaceous ... ... |
Jurassic ... ... |
Triassic and Liassic ... ... } 26
Permian ... ... |
Carboniferous ... ... |
Devonian ... ... |
Silurian ... ... |
Ordovician ... ... |
Cambrian ... ... }

III. Systematic Index = 2231:—

Gastropoda 26
Polyplacophora 26
Prosobranchia 27
Opisthobranchia, including Pteropoda and Heteropoda... 44
Pulmonata 45
Scaphopoda 52
Pelecypoda or Lamellibranchia 52
Cephalopoda 60
Incertae Sedis 61

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Winslow, M. L. *Pleurobema clava* (Lam.) and *Planorbis dilatatus buchanensis* (Lea) in Michigan. Ann. Arbor Mich. Occ. Pprs. Mus. Zool. **51** 1918 (1–4). **407**

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II. SUBJECT INDEX.

N.B.—*The number in Clarendon Type quoted after the author's name, in both the Subject and Systematic Indices, refers to "Titles," where the fuller reference will be found.*

GENERAL. 2203

Historical.

Cayeux, 61.

Biography.

[ANON.] **16** & **17**; **Ferriss, 143**; **Henderson, 198**; **Johnson, 219**; **Melvill, 270**; **Taylor, 373.**

Bibliography.

[ANON] **16** & **17**; **Calman, 57**; **Fossa-Mancini, 154**; **Harmer, 190**; **Isnard, 213**; **Kennard** & **Woodward, 230**; **Pallary, 307**; **Parona, 310**; **Reynell, 331** & **332.**

General Treatises and Monographs.

Cossmann, 98; **Hesse, 203** & **204**; **Ortmann, 304.**

Ethno-Conchology.

Moir, 279; Doello-Jurado, 129; Wurtemberg, 409.

Local Lists.

Alkins, 1 & 3; Alsop, 4; Gardiner, 165; Gouveia, 180; Hargreaves, 189; Hinkley, 206; Jackson, 215; Jacot, 217 & 218; Johnson, 220; Jones & Kennard, 223; Oldroyd, 300; Orcutt, 303; Pallary, 307; Pilsbry, 323; Roebuck, 334; Stelfox, 368; Tableman, 372; Vannatta, 382 & 384; Vignal, 390.

Museums, Collections, Expeditions.

[Anon.] 18, Boury de, 47; Caziot, 62; Colosi, 89; Ferriss, 142; Iwakawa, 214; Lamy, 244, 245, 247, 251 & 252; Melvill, 270; Morgan de, 283.

Nomenclature.

Dupuis, 135; Frierson, 159; Kennard & Woodward, 228 & 229; Pilsbry, 320; Sowerby, 356; Tomlin, 377; Walker, 396 & 400.

Technique.

Detweiler, 127; Drew, 133.

Miscellanea.

Caziot, 63; Dall, 116; Ferriss, 144; Hesse, 201

STRUCTURE. 2207

General.

Cayeux, 61; Dall, 117; Farnie, 140; Galiano, 163; Godwin-Austin, 176; Odhner, 297; Prashad, 326 & 327; Spath, 358; Watson, 401.

Nervous System.

Clasing, 82.

Shell.

Calman, 57; Coëmme, 85; O'Connell, 296.

Muscular System.

Anthony, 19; Calman, 57.

Alimentary System, Radula and Jaws.

Annandale & Prashad, 10; Calman, 57; Cooke, 93 & 94.

Respiratory Organs.

Galiano, 164; Mitchell & Barney, 278.

Reproductive Organs.

Boycott, 51; Steenberg, 366.

Sense Organs.

Castelli, 58; Moreno, 282.

PHYSIOLOGY. 2211

Glandular Secretions, Pigments.

Calman, 57; Hirsch, 207; Mitchell & Barney, 278.

Digestive Organs.

Jordan, 224.

Generative Organs.

Gould, 179.

Sense Organs.

Castelli, 58; Franz, 157; Galati-Mosella, 162; Šecérov, 345.

Muscular System.

Copeland, 95; Craifaleanu, 101.

Nervous System.

Arey & Crozier, 21; Copeland, 95.

Experimental.

Colosi, 88; Herlant, 200.

DEVELOPMENT. 2215

General.

Spath, 358.

Oogenesis and Ovum.

Conklin, 90; Fortier, 149; Gatenby, 168; Hargreaves, 189; Hutton, 212; Richards & Good, 333; Spek, 360; Spence, 363.

Spermatogenesis and Spermatozoon.

Artom, 22; Calman, 57; Drew, 133; Gatenby, 168; Gould, 179; Schitz, 340a.

Embryology.

Calman, 57; Halkett, 187; Spence, 363; Suter, 371.

Parthenogenesis.

Boycott, 52.

Regeneration.

Shecerova, 347.

Shell.

Petersen, 314a.

ETHOLOGY. 2219

General.

Boycott, 53; Crozier & Arey, 107; Goldsmith, 178a; Mellen, 269; Spath, 358.

Movements, Locomotion.

Boutan, 49; Copeland, 95; Crozier, 106; Farnie, 140; Mellen, 268; Webster, 402.

Enemies, Defence and Protection.

Calman, 57; Haviland & Pitt, 193; Keilin, 227; Mortensen, 287; Suter, 371; Van Hyning, 386; Webster, 402.

Feeding Habits.

Annandale & Prashad, 10; Beeston, 35; Brumfiel, 55; Calman, 57; Eliot, 137; Fortier, 149; Jordan, 224; Mitchell, 276; Mitchell & Barney, 278; Suter, 371; Webster, 402.

Breeding Habits.

Annandale & Prashad, 14; Beeston, 35; Calman, 57; Crozier, 105; Hargreaves, 189; Pelseneer, 313; Suter, 371.

Boring Habits.

Annandale in Godwin-Austen, 9; Barrows, 27; Calman, 57; Kindle, 236.

Coloration.

Pearce, 312; Webster, 402.

Habitat.

Annandale, 7; Annandale & Prashad, 10; Baker, 23; Beeston, 35; Brumfiel, 55; Calman, 57; Dacie, 108; Fortier, 149; Gardiner, 166; Hedley, 194; Huntsman, 211; Hutton, 212; Kindle, 236; Musham, 288; Pearce, 312; Saunders, 338.

Acclimatisation, Migration, etc.

Calman, 57; Clapp, 76; Fraser, 158; Hanna, 188; Huggins, 210; Letacq, 256; Morse, 286; Vanatta 383.

Hibernation and Æstivation.

Annandale, 7; Annandale & Prashad, 10 & 14; Beeston, 35; Calman, 57; Cort, 96; Mitchell, 276.

Parasitism, Commensalism, Parasites, etc.

Baker, 26; Cawston, 59 & 60; Debaisieux, 125; Foulon, 155; Johnston, 222; Keilin, 227; Kemp in Annandale & Prashad, 14; Lameere, 241 & 242; Schmitz, 343; Sinitzuin, 351; Soparker, 355; Zirpolo, 411.

Evolution.

Lang, 253; Trueman, 380.

Economics.

Barrows, 27; Calman, 57; Danglade, 122; Detweiler, 127; Doello-Jurado, 129; Hedley, 194; Hornell, 209; Kindle, 236; Meek, 266; Mitchell, 277; Russo, 336.

VARIATION AND ÆTIOLOGY. 2223

General Treatises.

Boycott, 50; Edmondson, 136.

Teratology, Phylogeny and Relationship.

Alkins, 3; Beeston, 35; Crozier, 104; Dall, 115; Dean, 124; Fossa-Mencini, 153; Hargreaves, 189; Hutton, 212; Lamy, 246; Stelfox, 367; Thomson, 376; Trueman, 379; Watson, 401; Webster, 402.

Evolution.
Annandale, 8; Charpiat, 68.

Variation in Form.
Whittaker, 403.

DISTRIBUTION. 2227

(a) Recent.

(α) *Marine.*

Arctic Ocean.
Dall, 115 & 120.

North Atlantic Ocean, Caribbean Sea and Gulf of Mexico.
Christensen, 70 & 71; Chumley, 72; Cleve-Euler, 83; Cross, 103; Gardiner, 165; Herdman, 199; Jacot, 217; Johnson, 220 and 221; Joubin, 225; Kindle, 236; Melvill, 273; Morse, 284, 285 & 286; Naumann, 290; Piaget, 315; Pilsbry, 317; Vignal, 390.

Mediterranean Sea and Black Sea.
Bosca Seytre, 45; Colosi, 87; Despott, 126; G., 161; Gatto & Despott, 169; Monterosato, 280; Pallary, 306 & 307; Sinitzuin, 351.

South Atlantic Ocean.
Lahille, 240; Lobo, 258; Strebel, 369.

Indian Ocean, Red Sea.
Annandale & Prashad, 11; Bretnall, 54; Dupuis, 134; Gravely, 181; Hornel, 208; Lamy, 243, 248, 249 & 250; Melvill, 271 & 272; Odhner, 297; Vredenburg, 391, 392, 393, 394 & 395.

Malaysia.
Bartsch, 34; Bretnall, 54; Dupuis, 134; Eliot, 137; Melvill, 272; Schepman, 340.

Pacific Ocean.
Barrows, 27; Berry, 40 & 41; Boury de, 48; Bretnall, 54; Bryan, 56; Dall, 112, 113, 114, 115, 117 & 120; Grinnell & Ostergaard, 182; Hedley, 194 & 195; Iwakawa, 214; Melvill, 272; Mestayer, 274; Odhner, 297; Oldroyd, 300; Orcutt, 303; Thomson, 376; Willett, 404.

Southern Ocean.
Saunders, 338.

(β) *Non-Marine.*

Europe as a whole.
Annandale, 5; Schlesch, 342.

Norway. 2227 da
Økland, 298.

British Islands. 2227 de
Alkins, 1, 2 & 3; Beeston, 35; Dean, 124; Gardiner, 166; Halbert, 186; Huggins, 210; Jackson, 216; Jones & Kennard, 223; Kennard & Woodward, 228 & 230; Oldham, 299; Roebuck, 334; Stelfox, 367 & 368; Taylor, 374; Woodruffe-Peacock, 408.

France. 2227 df
Piaget, 315; Caziot, 62.

Italy. 2227 dh
Razzauti, 328.

Switzerland. 2227 di
Musy, 289.

Balkan Peninsula. 2227 dk
Pavlovic, 311.

Malta. 2227 dm
G., 161.

Eastern Siberia. 2227 eab
Annandale, 5.

British India, etc. 2227 ef
Annandale, 7; Annandale & Prashad, 10, 11 & 14; Godwin-Austen, 175 & 177; Prashad, 326 & 327.

Siam. 2227 ee
Godwin-Austen, 176.

Malaysia, Philippine Islands, etc. 2227 eg
Bartsch, 29, 31 & 32; Clapp, 79; Schepman, 340; Walker, 396.

Persia. 2227 eh
Annandale & Prashad, 14.

China and Corea. 2227 eb
Annandale & Prashad, 12; Gude, 184; Pilsbry, 322 & 324.

Japan. 2227 ec
Annandale, 5; Annandale & Prashad, 10; Iwakawa, 214; Pilsbry, 324; Walker, 397.

Asiatic Turkey. 2227 ei
Annandale, 5; Annandale & Prashad, 13; Hesse, 202; Prashad, 327.

Africa as a whole.
Germain, 172.

N. Africa. 2227 fa
Hesse, 202; Pallary, 308.

Belgian Congo 2227 fc
Pilsbry, 318.

East and Central Africa etc. 2227 ff
Germain, 170 & 173.

South Africa. 2227 fg
Connolly, 91; Conolly [Connolly], 92; Cawston, 59 & 60.

Madagascar, etc. 2227 fh
Germain, 171 & 173; Spence, 362.

North America as a whole.
Baker, 23.

Alaska. 2227 ga
Willett, 404.

Canada. 2227 gb
Latchford, 254; Pilsbry, 324; Whittaker, 403.

N.E. United States. 2227 gg
Baker, 25; Jacot, 218; Ortmann, 304; Pilsbry, 324; Vanatta, 384; Winslow, 407.

S.E. United States. 2227 gh
Clapp & Ferriss, 77; Pilsbry, 324; Tableman, 372; Vanatta, 382; Walker, 399.

W. United States. 2227 gi
Bartsch, 30 & 33; Berry, 38 & 39; Ferriss, 142; Orcutt, 303; Pilsbry, 321, 323 & 324.

Mississippi River System. 2227 gk
Clapp, 75; Hinkley, 206; Shimek, 348.

Mexico. 2227 gi
Pilsbry, 317.

Central America. 2227 hb
Pilsbry, 317; Sowerby, 357; Walker, 398.

West Indies. 2227 hc
Clapp, 78; Spence, 361.

Venezuela. 2227 hd
Pilsbry, 316

Ecuador. 2227 he
Haas, 185.

Peru. 2227 hf
Pilsbry, 319.

Argentina and Uruguay. 2227 hi
Dall, 118; Doello-Jurado, 130; Haas, 185.

Queensland. 2227 id
Odhner, 297.

South Australia. 2227 ig
Odhner, 297.

West Australia. 2227 ih
Odhner, 297.

North Atlantic Ocean. 2227 la
Lobo, 258; Pilsbry, 324; Schlesch, 341; Vanatta, 385.

Pacific. 2227 n
Dall, 112; Gouveia, 180.

(*b*) FOSSIL.

General.
Cayeux, 61.

Quaternary.

Annandale, 6 & 8; Baker, 24; Bell, 36; Cazurro y Ruiz, 64; Gignoux, 174; Hedley, 196; Heim & Gams, 197; Monterosato, 280; Odhner, 297; Roman, 335; Shimek, 349; Shimer; 350; Stadler, 365; Vredenburg, 395.

Cainozoic.

Nordhagen, 295; Vaillandet, 381.

Pleistocene.

Beeston, 35; Chace, 65; Chapman, 66; Kaldhol, 226.

Tertiary.

Arabu, 20; Bartrum, 28; Böhm & Weisfermel, 42; Boury de, 48; Charpiat, 69; Cisneros, Jiménez de, 74; Cossmann, 97; Dall, 111; Godwin-Austen, 178; Harmer, 190; Kerforne, 231; Kruella, 239; Marshall, 260; Marshall & Murdoch, 261; Maury, 262 & 263; Moody, 281; Newton, 292; Nomland, 294; Pericás, 314; Roman, 335; Speight, 359; Suter, 370; Vredenburg, 391 & 395; Wybergh, 410.

Pliocene.

Bell, 37; Cisneros, Jiménez de, 73; Cossmann & Peyrot, 99; Fossa-Mancini, 151; Oppenheim, 302; Packard, 305.

Miocene.

Cossmann & Peyrot, 99; Dall, 117; Dalloni, 121; Daus, 123; Ficheur, 145; Cisneros, Jiménez de, 73; Gardner & Aldrich, 167; Godwin-Austen, 177; Kerforne, 233; Llueca, 257; Newton, 293; Oppenheim, 302; Packard, 305; Sangiorgi, 337.

Oligocene.

Bonarelli, 43; Cossmann, 98; Dollfus, 131; Kerforne, 232; Packard, 305.

Eocene.

Bourcart, 46; Charpiat, 68; Dainelli, 109; Dalimier, 110; Harris, 191 & 192; Oppenheim, 301; Packard, 305; Van Winkle, 387 & 388; Van Winkle & Harris, 389.

Cretaceous.

Bonarelli, 43; Chaput, 67; Cisneros, Jiménez de, 74; Cossmann, 97; Crick, 102; Dowling, 132; Fourtau, 156; Fucini, 160; Guebhard, Lambert & Repelin, 183; Kerforne, 233; McLearn, 264 & 265; Navarro, 291; Packard, 305; Parona, 309; Roman, 335; Wiman, 406.

Jurassic.

Cisneros, Jiménez de, 74; Coëmme, 85; Collot, 86; Couffon, 100; Fossa-Mancini, 152; Kitchen, 237; Krenkel, 238; Pericás, 314; Reboul & Faure-Marguerit, 329; Schäfer, 339; Schneid, 344; Trauth, 378; Trueman, 380.

Triassic and Liassic.

Bonnet, 44; Cisneros, Jiménez de, 74; Diener, 128; Fossa-Mancini, 150, 152, 153 & 154; Kerforne, 233; Mariani, 259; Meli, 267; Repossi, 330; Schäfer, 339; Spitz, 364.

Permian.

Bonnet, 44; Lees, 255.

Carboniferous.

Etheridge, 138; Kerforne, 231; Lees, 255; Smith, 352, 353 & 354.

Devonian.

Clarke, 81; Etheridge, 139; Fenton, 141; Kerforne, 131; Kindle, 235.

Silurian.

Foerste, 147; Meunier, 275; Thomas, 375; Williams, 405.

Ordovician.

Clark, 80; Field, 146; Foerste, 148; Kerforne, 231 & 233.

Cambrian.

Cobbold, 84; Kerforne, 231; Kiær, 234.

III.—SYSTEMATIC INDEX.

2231

N.B.—The numerals in Clarendon when not indicating a Volume refer to Titles.

Gastropoda.

POLYPLACOPHORA.

Acanthochites, DUPUIS **135**.

Acanthochiton angelica sp. n. California, DALL Washington Nation Mus. Proc. **55** p. 515.

Acanthopleura, DUPUIS **134.**

Callistochiton acinatus, celetus, California; *aepynotus*, Puget Sd.; *cyanosus, chthonius*, California; *fisheri*, Aleutians; *duncanus*, Galapagos Is. **spp. n.**, DALL Washington Nation Mus. Proc. **55** pp. 510–512.

Chaetopleura, LAHILLE **240.**— ? *C. lactica* **sp. n.** California, DALL Washington Nation. Mus. Proc. **55** p. 509.

Chiton lamyi **sp. n.** Obock., DUPUIS Bul. Mus. Paris **23** p. 538.—*C.*, CROZIER **104.**—*C.*, CROZIER & AREY **107.**—*C.*, DEBAISIEUX **125.**—*C.*, DUPUIS **135.**

Choneplax, DUPUIS **135.**

Craspedochiton, ODHNER **297.**

Cryptoplax, DUPUIS **135.**

Cyanoplax fackenthallae **sp. n.** California, BERRY Lorquiana **2** p. [45.]

Hanleya spicata **sp. n.** California BERRY Proc. Cal. Acad. Sci. **9** p. 8.

Ischnochiton (*Lepidozona*) *asthenes, golischi* **spp. n.** California, BERRY Lorquiana **2** p. [47].—*I. marmoratus, bryanti, brunneus, listrum*, California; *ritteri* Alaska; *I ? exanthematus*, Straits of Magellan; *I. ophioderma*, Panama; *acelidotus*, Straits of Magellan; *mariposa, berryi, I.* (*Stenoplax*) *aethonus, I.* (*Radsiella*) *aethalotus, I. eucosmius, venezius*, California **spp. n.**, DALL Washington Nation. Mus. Proc. **55** pp. 503–509.—*I.* with *I. bouryi* **nom. n.** for *I. variegatus*, Nierstrasz, DUPUIS Bul. Mus. Paris **23** pp. 534–535.—*I.*, BERRY **41.**—*I.*, DUPUIS **135.**

Lepidopleurus (*Leptochiton*) *ambustus, lycurgus, oldroydi*, California; *agesilaus*, Straits of Magellan; *nicomedes*, S. Chile, DALL Washington Nation. Mus. Proc. **55** pp. 499–501.—*L. badius*, SAUNDERS **338.**

Leptochiton, BERRY **41.**

Liolophura, DUPUIS **135.**

Mopalia chloris, California; *goniura, celetoides*, Alaska; **spp. n.** *M. Semimopalia* **subgen. n.** with *M.* (*S.*) *grisea*, Tierra del Fuego **sp. n.**, DALL Washington Nation Mus. Proc. **55** pp. 513–514.—*M. egretta, cirrata*, Alaska; *phorminx, chacei*, California **spp. n.**, BERRY Lorquiana **2** pp. [45–46].—*M.* BERRY **41.**

Nuttallina allantophora, magdalena **spp. n.** California, DALL Washington Nation. Mus. Proc. **55** p. 502.

Placiphorella pacifica **sp. n.** Alaska, BERRY Lorquiana **2** p. [46].

Plaxiphora, DUPUIS **134.**—*P.*, LAHILLE **240.**

Schizochiton jousseaumei **sp. n.** Perim, DUPUIS Bul. Mus. Paris **23** p. 536.

Stenoplax, DUPUIS **135.**

Tonicia mixta, pustulifera **spp. n.** California, DALL Washington Nation. Mus. Proc. **55** pp. 515–516.—*T.*, DUPUIS **135.**—*T.*, LAHILLE **240.**—*T.*, ODHNER **297.**

Xiphiozona **subgen. n.** (*Lepidopleurus*), *L.* (*X.*) *heathi* **sp. n.** California, BERRY Lorquiana **2** p. [45].

Prosobranchia.

TEREBRIDAE, CONIDAE, TURRIDAE (*Pleurotomidae olim*) & CANCELLARIIDAE.

Admete rhyssa **sp. n.** S. Coronado Isd., DALL Proc. U.S. Nation. Mus. **56** p. 306.

†*Admete* with *A. viridula sheppardi* **sp. n.** Tertiary England, BELL Naturalist London **1919** p. 58.

Agathotoma pomara **sp. n.** California, DALL Proc. U.S. Nation. Mus. **56** p. 305.

Antiplanes aqamedea, California; *Kamchatica, balimoides* Behring Sea; *litus, abarbarea, briseis, hyperia, amycus, amphitrite, a.* var. *beroe* California **spp. & var. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 33–37.

Bathytoma regnans **sp. n.** Indian Ocean, MELVILL Proc. Malac. Soc. **13** p. 68.

Bellaspira melea **sp. n.** Panama, DALL Proc. U.S. Nation. Mus. **56** p. 29.

Borsonella barbarensis, nychia, omphale, nicoli, rhodope **spp. n.** California, DALL Proc. U.S. Nation. Mus. **56** pp. 37–39.—*B. civitella* **sp. n.** California, DALL Proc. U.S. Nation. Mus. **56** p. 302.

†*Borsonia inculta* **sp. n.** Tertiary U.S.A., MOODY Berkely Cal. Pub. Bul. **10** p. 54.

Cancellaria septemcostata **sp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 55.

†*Cancellaria harrisi*, *C.* (*Trigonostoma*) *gurabis*, *C.* (*Aphera*) *islacolonis*, *C.* (*Narona*) *losquemadica* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 228–230.—*C. quadrata* **sp. n.** Tertiary U.S.A., MOODY Berkely Cal. Pub. Bul. **10** p. 56.—*C.*, GARDNER & ALDRICH **167.**

Clathrodrillia paziana, limans, castianira, aenone, callianira, andromeda Carinodrillia **sec. n.**—*C.* (*C.*) *halis, alcestis, thestia, haliplexa; C.* (*Kylix*) *alcmene*, California; ? *C.* (*K.*) *alcyone*, Cape Lobos **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 14–20.

Clavatula, VREDENBURG **391.**

†*Clavatula*, VREDENBURG **391.**

Conus mediterraneus **var. n.** *pretunculus* Mediterranean MONTEROSATO Bull. Soc. Zool. Ital. **3** p. 23.—*C.*, ODHNER **297.**

†*Conus haytensis* var. *gurabensis, williamgabbi, symmetricus* **var.** *semiobsoletus, sewalli, granozonatoides, ornatus, vanattai, olssoni, cercadensis, kitteredgei karlschmidti* **varr. & spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 199–201 203 205–208 211.—*C. tutus* **sp. n.** Quaternary, Tripoli, MONTEROSATO Bull. Soc. Zool. Ital. **3** p. 23.

Crassispira erigone, Panama; *eurynome*, Mexico; *candace*, California; *dirce, nephele, epicasta, bridgesi*, Panama; *bacchia, tepocana, arsinoë*, ? *C. rugitecta*, California; *amathea*, Mexico; *martinensis*, California **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 21–27.

Cryptogemma eidola, California; *C. oregonensis*, Oregon **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** p. 301.—*C. polycaste*, Oregon; *chrysothemis, calypso, cymothoë, quentinensis, antigone, adrastia*, California **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 30–33.

Cymatosyrinx hespera, elissa, Panama Bay; *lalage*, California; *plicatella*, Panama Bay; ? *C. ferminiana, palmeri*, California; *C. idothea*, Straits of Magellan; *hecuba*, California **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 6–9.

†*Cythara caimitica, cercadica* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 224–225.

Cytharella aculea, louisa, quadriseriata, hippolita, verdensis, ? *C. janira, C. electra*, California; *niobe*, Panama; *amatula, phaethusa, C.* (*Agathotoma*) *pyrrhula, euryclea, penelope*, California; *camarina*, Galapagos Isds.; *phryne*, Panama **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 74–80.

Daphnella bartschi **sp. n.** California, DALL Proc. U.S. Nation. Mus. **56** p. 76.

Diplomeriza duplicata **nom. n.** for *Duplicaria* subgen. *Terebra*, DALL Nautilus **33** p. 32.

Drillia with *D. sexradiata, hololeuca* **spp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** pp. 57–58.

†*Drillia* with *D. precursor, sumterensis* **spp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** pp. 19–22.—*D. cercadonis, riogurabonis, losquemadica, donalbertonis, maonisriparum, hispaniolae, islalindae* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 216 218–221.—*D.* (*Tripia*) *clavatuloides* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 153.

Elaeocyma ianthe, California; *attalia*, Mexico; *arbela, halocydne, aeolia*, California; *abdera*, Panama; *aegina*, ? *E. aerope*, California, DALL Proc. U.S. Nation. Mus. **56** pp. 9–13.

Glyphostoma adana, adria, partefilosa, California; *sirena*, Galapagos Isds.; *cymodoce*, **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 52–54.

†*Glyphostoma golfoyaquensis* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 225.

? *Haedropleura melita* **sp. n.** California, DALL Proc. U.S. Nation. Mus. **56** p. 30.

Leucosyrinx persimilis var. *blanca*, Oregon; *galapagana*, Galapagos Isds. *amycus*, California; *Kincaidi*, Alaska **var. & spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 5–6.—*L. thomsoni, cuvierensis* **spp. n.** New Zealand, MESTAYER Trans. and Proc. N.Z. Inst. **51** p. 133.

†*Leucosyrinx subaltus* **sp. n.** Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. **51** p. 256.

Lora babylonia **sp. n.** Oregon, DALL Washington Proc. Biol. Soc. **32** p. 250.—*L. pitysa*, California; *halitropa*, Magellan Str.; *brachis*, Galapagos Isds.; *antipoda*, Magellan Str.; *healyi*, Arctic Ocean; *popovia*, *tenuilirata* var. *cymata*, *mitrata*, *pavlova*, Behring Sea; *chiachiana*, *alitakensis*, Aleutians; *equatorialis* Ecuador to Patagonia; *pribilova*, Arctic Ocean; *inequita*, Behring Sea; *surana*, California; *nazanensis*, Aleutians; *monterealis*, California; *quadra*, Aleutians; *diegensis*, California; *lotta*, British Columbia; *Kyskana*, Aleutians to Puget Sd.; *miona*, Alaska; *harpa*, Arctic Ocean; *regulus*, California; *lütkeni*, Alaska; *sexta*, California; *althorpensis*, *tenuissima*, Alaska; *colpoica*, Oregon **spp.** & **var. n.** *L. lawrenceana* for (*Bela tenuilirata*) **nom. n.**, DALL Proc. U.S. Nation. Mus. **56**. pp. 40-50.—*L. fiora*, Aleutians; *L. casentina*, California; *L. galgana*, Unalaska; *L. amiata*, Alaska; *L. rassina*, Behring Sea **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 302–303.

Mangilia (*Clathromangilia*) *rhyssa*, *M.* (*Kurtziella*) *cyrene*, *danaë*, *hebe*, *arteaga*, var. *roperi*, *M.* (*K.?*) *beta* California; *M. nunivakensis*, Behring Sea; *oenea*, *philodice*, California; *patagoniensis*, Patagonia; *eriopsis*, *granitica*, *althorpi*, Alaska; *carlottae*, Brit. Columbia; *evadne*, *eriphyle*, California; *hermione*, Galapagos Isds.; *laodice*, Ecuador; *cesta*, California; *newcombi*, Vancouver; *M. ? dejanira*, *eurybia*, California **spp.** & **var. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 62–72.—*M.* (*Kurtziella*) *alesidota*, *tersa* **spp. n.** California, DALL Proc. U.S. Nation. Mus. **56** pp. 304–305.—*M.*, ODHNER **297.**

†*Mangilia maoica*, *lalonis* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 222.—*M. muricidea* **sp. n.** Tertiary U.S.A., MOODY Berkely Cal. Pub. Bul. **10** p. 55.

†*Mitromorpha mitrodita* **sp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 26.

Moniliopsis with *M. grippi* **sp. n.** California, DALL Proc. U.S. Nation. Mus. **56** p. 27.

Philbertia capaniola **sp. n.** California, DALL Proc. U.S. Nation. Mus. **56** p. 304.—*P. hesione*, *helena*, *doris*, *dione*, California; *ephaedra*, Panama; *aethra*, *dictynna*, *scammoni*, *telamon*, *aegialea*, California; *Nannodiella* **Sec.** [?] **n.**, *P.* (*N.*) *nana*, *fraternalis*, California; *phylira*, *amycla*, Panama; *P. hilaira* **spp. n.**, *P. trichodes* **nom. n.** for *Pleurotoma hirsutum*, DALL U.S. Nation. Mus. **56** pp. 54–62.

†*Pleurotoma quasinermis* **sp. n.** Neogen OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 106.—*P. togoensis* **sp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch-Schutzg. **12** p. 59.

Pleurotomella herminea, California: *thalassica* Oregon; *oceanida*, Panama **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 50–51.

Pusionella with *P. nifat* **var. n.** *major*, *P. Kraepelini* and varr. *nana*, *extense sculpta*, *pallida* **sp.** & **varr. n.**, *P. compacta* **sp. n.**, *P. aculeiformis* **varr. n.** *vexans*, *intuslirata* W. Africa, STREBEL Beiträge Kenntnis Meeresfauna Westafrikas. Moll. I Pusionella Lfg. **2** pp. 87–125.

Suavodrillia willetti **sp. n.** Alaska, DALL Proc. U.S. Nation. Mus. **56** p. 29.

†*Surcula riomaonis* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 213.—*S. castlecliffensis* **sp. n.** Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. **51** p. 255.—*S. gravida*, *marginalis*, *equispiralis*, *torticostata* **spp. n.** Tertiary New Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** pp. 231–232.

Tabanis panope, Ecuador; *zeuxippe*, Galapagos Isds. **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** p. 81.

Terebra, ODHNER **297.**

†*Terebra benesulcata* **sp. n.** Tertiary N. Zealand, BARTRUM Trans. and Proc. N.Z. Inst. **51** p. 99.—*T. luxurians*, *T.* (*Strioterebrum*) *lycica* **spp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 103.—*T. sulcata* **sp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 232.—*T. gausapata* var. *laevifasciola*, *cambiarsoi*, *petiti*, *berlinerae*, **var.** & **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 191 195 198.

Turricula libya, off Cape San Lucas; *T.* (*Knefastia*) *nigricans*, California; *T.* (*Surcula*) *laysanica*, N. Pacific;

T. (*S.*) *panthea*, Panama Bay; *T.* (*S.*) *lavinia*, W. Mexico **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 2–4.

†*Turris politus, margaritatus, reticulatus* **spp. n.** Tertiary New Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** pp. 230–231.—*T.* (*Drillia*) *modestus* **sp. n.** Tertiary U.S.A., MOODY Berkely Cal. Pub. Bul. **10** p. 54.

Veprecula cooperi **sp. n.** New Zealand, MESTAYER Trans. and Proc. N.Z. Inst. **51** p. 134.

Zetekia curta **sp. n.** Panama, DALL Proc. U.S. Nation. Mus. **56** p. 305.

OLIVIDAE, HARPIDAE, MARGINELLIDAE VOLUTIDAE & MITRIDAE.

Alcithoë, SUTER **371.**

†*Ancilla tournoueri* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 156.

Ancillaria, ODHNER **297.**

Hyalina myrmecoon **sp. n.** California, DALL Proc. U.S. Nation. Mus. **56** p. 308.

Marginella with *M. thomensis* **nom. n.** for *M. dautzenbergi*, T. & S. *non* Cossm., *M. barnardi* **nom. n.** for *M. taylori*, Shack. *non.* Ols., TOMLIN Proc. Malac. Soc. **13** p. 65.—*M. albuminosa*, West Mexico; *M. politula*, California; *eremus, anticlea* Galapagos Isds. **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** p. 307.—*M.*, ODHNER **297.**

†*Marginella christineladdae, maoensis, hispaniolana, M.* (*Persicula*) *cercadensis* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 234–237.—*M. aveniformis* **sp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 230.—*M.* (*Stazzania*) *sacyi, behni* **spp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** pp.157–158.

†*Marginellidae* with *M. microglaphyra* **nom. n.** for *M. brevis*, Sacco, *M. ortmanni* **nom. n.** for *M. olivella*, Ort., *M. parisiensis* **nom. n.** for *M. cylindracea*, Desh., *M. seguenzae* **nom. n.** for *M. ovulaeformis*, Seg., *M. transnominata* **nom. n.** for *M. ovum*, Schafh., *M. trochiscus* **nom. n.** for *M.* (*Volvarina*) *brevispira*, Opp., *M. cinneracea* var. *tetraptycta* **nom. n.** for *M. c.* var. *quadriplicata*, Böse, TOMLIN Proc. Malac. Soc. **13** 1919 pp. 41–65.

Melo, ODHNER **297.**

Mitra signa **nom. n.** for *M. amanda* Bartsch *non* Reeve Nautilus **33** p. 31.—*M.*, ODHNER **297.**

†*Mitra dalli* **sp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 25.—*M. quemadica, berlineri, M.* (*Strigatella ?*) *perturbatrix* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 239–240.—*M. orientalis* **nom. n.** for ? *M. scrobiculata*, Brocc., OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 97.

Mitridae, COOKE **93.**

Oliva sericea miniacea **var. n.** *johnsoni* [Loc. ?], HIGGINS Nautilus **33** 1919 p. 58.—*O.*, ODHNER **297.**

†*Oliva cristobalcoloni* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 231.

†*Olivancillaria* (*Utriculina*) *luschani* **sp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 99.

†*Olivella sancti-dominici* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 233.

Strigatella (*Atrimitra*) *catalinae, diegensis*, California; *S.* (*A.*) *mexicana* Mexico **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 308–309.

Turricula, ODHNER **297.**

†*Turricula* (*Costellaria*) *bullennewtoni* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 241.

†*Velutoderma zelandica* **sp. n.** Tertiary N. Zealand, MARSHALL Trans and Proc. N.Z. Inst. **51** p. 230.

Voluta, ODHNER **297.**

†*Volutolithes grunneri* **sp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch. Schutzg. **12** p. 56.

Volvaria lubrica, Pett. **fig.**, TOMLIN Proc. Malac. Soc. **13** p. 65.

FASCIOLARIIDAE, TURBINELLIDAE, BUCCINIDAE, NASSARIIDAE (*Nassidae olim*), PYRENIDAE (*Columbellidae olim*), MURICIDAE & THAIDIDAE (*Coralliophilidae olim*).

†*Acanthina* (*Monoceras*) *norna* **sp. n.** Tertiary U.S.A., NOMLAND Berkely Cal. Pub. Bul. **10** p. 309.

Aesopus arestus **sp. n.** California DALL Proc. U.S. Nation. Mus. **56** p. 332.

Agnewia, COOKE **94.**

Alectrion, COPELAND **95.**

†*Alectrion neogenensis* **sp. n.** Miocene U.S.A. GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 29.—*A. cercadensis, gurabensis, losquemadica* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 254–255.

Alia callimorpha, casciana, California; *xenia*, Cape San Lucas **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** p. 330.

Amphissa versicolor **var. n.** *incisa* California, DALL Proc. U.S. Nation. Mus. **56** p. 321.

Anachis phanea **sp. n.** Mexico, DALL Proc. U.S. Nation. Mus. **56** p. 329.

†*Anachis styliola obsoleta, sumterensis, anomala* **subsp. & spp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** pp. 30–33.

Ancistrolepis with *A. eucosmius* var. *bicinctus*, Alaska; *californicus*, California; *beringianus*, Behring Sea; **var. & spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 312–313.

Astyris amiantis **sp. n.** Aleutians, DALL Proc. U.S. Nation. Mus. **56** p. 331.

†*Astyris communis carolinensis* **subsp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 34.—*A. deboovi* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 264.

Aulacofusus (*Limatofusus*) *pulcius*, Arctic Ocean; *timetus*, Aleutians; *trophius*, Washington; *morditus*, Gulf of Georgia; *dimidiatus*, Oregon; *severinus*, California; *halimeris*, Alaska; *trombinus* Behring Sea **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 318–321.

†*Belophus incertus* **sp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 229.

Beringius crebricostatus var *undatus*-Alaska; *Kennicottii var incisus, mar, shalli, indentatus*, Behring Sea **var.** & **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 311–312.

Buccinum with *B. solenum, planeticum, pemphigus* var. *major, physematum*, Behring Sea; *chartium*, Japan Sea; *rondinum, rossellinum*, Alaska; *angulosum* varr. *cnismatopleura* and *transliratum* Arctic Ocean **spp. & varr. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 324–328.—*B. undatum*, FOULON **155.**—*B.*, CHRISTENSEN **71.**

Cantharus exanthematus **sp. n.**, California, DALL Proc. U.S. Nation. Mus. **56** p. 329.

Chorus, COOKE **94.**

Chrysodomus smirnius, pribiloffensis, saturus var. *tabularis*, Behring Sea; *nuceus* Alaska; *hypolispus*, Japan Sea **spp. & var. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 222–224.

†*Chrysodomus dirus meridici* **var. n.** Tertiary U.S.A., MOODY Berkely Cal. Pub. Bul. **10** p. 52.

†*Clavilithes*, DAINELLI **109.**

Columbella, ODHNER **297.**

†*Columbella* (*Astyris*) *constantia* **sp. n.** Tertiary U.S.A., MOODY Berkely Cal. Pub. Bul. **10** p. 53.

Colus (*Latisipho*) *errones* Behring Sea; *clementinus*, California; *dalmasius* British Columbia **spp. n.**, DALL Proc. U.S. Nation. Proc. **56** pp. 221–222.—*C.* (*Latifusus*) *pharcidus*, Sea of Okhotsk; *C.* (*Aulacofusus*) *nobilis, ombronius*, Behring Sea; *adonis*, Gulf of Japan; *bristolensis, barbarinus*, Behring Sea; *sapius, calathus*, Alaska; *capponius*, Behring Sea; *halidonus*, Washington **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 314–318.

Concholepas, COOKE **94.**

Coralliobia, SOWERBY **356.**

Coralliophila stearnsiana, C. (*Pseudomurex*) *kincaidi, orcuttiana* **spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** pp. 239 & 240.

Cronia, COOKE **94.**

Cyclonassa neritea with *C. n.* **varr.** [? **n.**] *minuta, elongata, depressa, globulosa, compacta* Mediterranean, PALLARY J. Conchyliol. **64** pp. 1–11.

Cymia carinifera var. *simplex, C. dubia* **var. & sp. n.** N. Guinea, SCHEPMAN Nova Guinea **13** p. 189.—*C.*, COOKE **94.**

†*Cymia henekeni* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 258.

Donovania turritellata **var. n.** *mirabilis* Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital. **3** p. 22.

Drupa walkerae, Pilsbry & Bryan = *Pentadactylus fusco-imbricatus*, Sow. Nautilus **33** p. 71.—*D.*, Cooke **94.**

Fasciolaria, Johnson **221.**

†*Fasciolaria carminamaris* **sp. n.** Tertiary S. Domingo, Maury Bul. Amer. Pal. **5** p. 245.

†*Ficus affinis* **sp. n.** Eocene U.S.A., Van Winkle Bul. Amer. Pal. **8** p. 8.—*F. imperfectus* **sp. n.** Tertiary New Zealand, Marshall & Murdoch Trans. and Proc. N.Z. Inst. **51** p. 255.

†*Fusinus altus* **sp. n.** Tertiary N. Zealand, Marshall Trans. and Proc. N.Z. Inst. **51** p. 229.—*F. maorium* **sp. n.** Tertiary N. Zealand, Marshall & Murdoch Trans. and Proc. N.Z. Inst. **51** p. 254.—*F. fabulator* **sp. n.** Tertiary U.S.A., Nomland Berkely Cal. Pub. Bul. **10** p. 309.

Fusus, Christensen **71.**

†*Fusus henekeni* **var. n.** *veatchi* Tertiary S. Domingo, Maury Bul. Amer. Pal. **5** p. 243.—*F.*, Couffon **100.**—*F.*, Dainelli **109.**

†*Fusoficula angelinensis* **sp. n.** Eocene U.S.A., Harris Bul. Amer. Pal. **8** p. 18.

Haustrum, Cooke **94.**

†*Ilyanassa*, Shimer **350.**

Iopas, Cooke **94.**

Latirus niger **sp. n.** N.W. Australia, Odhner K. Svensk. Vet. Ak. Handl. **52** p. 50.

†*Latirus dubius* **sp. n.** Tertiary N. Zealand, Marshall Trans. and Proc. N.Z. Inst. **51** p. 229.

Lepsiella, Cooke **94.**

Leptoconchus, Sowerby **356.**

†*Lirofusus gallicus* **sp. n.** Oligocene France, Cossmann J. Conchyliol. **64** p. 161.

Magilopsis **nom. n.** for *Leptoconchus lamarcki*, Sowerby Proc. Malac. Soc. **13** p. 77.

Magilus, Sowerby **356.**

†*Melongena* (?) *guillemaini* **sp. n.** Eocene Togo, Oppenheim B. geol. Deutsch Schutzg. **12** p. 54.—*M.* (*Pugilina*) *tournoueri*, *bezieri* **spp. n.** Oligocene France, Cossmann J. Conchyliol. **64** pp. 162–164.

Megalatractus, Odhner **297.**

†*Meta islahispaniolae*, *perplexabilis* **spp. n.** Tertiary S. Domingo, Maury Bul. Amer. Pal. **5** p. 257.

†*Metulella williamgabbi* **sp. n.** Tertiary S. Domingo, Maury Bul. Amer. Pal. **5** p. 254.

Morula, Cooke **94.**

Murex (*Alipurpura*) *rhyssus* **sp. n.** California, Dall Proc. U.S. Nation. Mus. **56** p. 332.—*M.*, Christensen **71.**—*M.*, Odhner **297.**

†*Murex yaquensis*, *M.* (*Phyllonotus*) *praepauxillus* **spp. n.** Tertiary S. Domingo, Maury Bul Amer. Pal. **5** p. 104.—*M.* (*Pteronotus*) *saaretensis* **sp. n.** Neogen, Oppenheim Berlin Zs. D. geol. Ges. **70** p. 110.

†*Muricopsis*, Dainelli **109.**

Nassa ennurensis **var. n.** *depauperata* Brit. India, Annandale & Prashad Rec. Ind. Mus. Calcutta **16** p. 253.—*N.*, Odhner **297.**

†*Nassa*, Shimer **350.**

†*Nassarina olssoni* **sp. n.** Tertiary S. Domingo, Maury Bul. Amer. Pal. **5** p. 252.

Nassidae, Christensen **71.**

Neptunea tolomia, *apolyonis*, *ithitoma*, *staphylina*, *callicerata*, *N* (*Trophonopsis*) *lasia* **spp. n.** N. Pacific, Dall Proc. U.S. Nation. Mus. **56** pp. 237–238.—*N.*, Christensen **71.**

? *Nitidella lutulenta* **sp. n.** California, Dall Proc. U.S. Nation. Mus. **56** p. 331.

†*Nitidella cibaoica* **sp. n.** Tertiary S. Domingo, Maury Bul. Amer. Pal. **5** p. 263.

Nucella, Cooke **94.**

Patellipurpura, Cooke **94.**

Phos, Odhner **297.**

†*Phos sloani* **sp. n.** Miocene U.S.A., Gardner & Aldrich Proc. Acad. Nat. Sci. Philad. **71** p. 27.

Pinaxia, Cooke **94.**

Pliciferus (*Retifusus*) *incesus*, *oceaniformis* **spp. n.** Behring Sea, Dall Proc. U.S. Nation. Mus. **56** p. 314.

†*Pseudoliva liburnica* **sp. n.** Eocene Croatia, DAINELLI Atti Soc. tosc. sc. nat. **32** p. 54.—*P. soldadoensis* **sp. n.** Eocene Trinidad, VAN WINKLE Bul. Amer. Pal. **8** p. 22.

Purpura lapillus **var. n.** *minima* France, VIGNAL Paris Bul. soc. zool. **42** p. 167.—*P.*, CHRISTENSEN **71.**

†*Purpura nana* **sp. n.** Tertiary U.S.A., NOMLAND Berkely Cal. Pub. Bul. **10** p. 310.

Pyrula, ODHNER **297.**

Rapana, COOKE **94.**

Ricinula, ODHNER **297.**

†*Sipho*, HARMER **163.**

†*Siphonalia propenodosa, kawaensis* **spp. n.** Tertiary N. Zealand, BARTRUM Trans. and Proc. N.Z. Inst. **51** pp. 98–99. —*S. gilberti* **sp. n.** Tertiary U.S.A., MOODY Berkely Cal. Pub. Bul. **10** p. 51.

†*Strepsidura kerstingi* **sp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch. Schutzg. **12** p. 58.—*S.*, DAINELLI **109.**

†*Streptochetus*, DAINELLI **109.**

†*Strombina pseudohaitensis* and var. *gurabensis, bassi, nanniebellae, neustrasenorae, divilitus* **spp. & var. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 259–260 262.

Thais, COOKE **94.**

†*Thais*, SHIMER **350.**

Tritonalia gracillina var. *obesa, lurida* var. *rotunda, fusconotata, circumtexta* var. *citrica, interfossa* varr. *clathrata, nurior* and *atropurpurea, selera, epiphanea, tracheia, turrita* **var. & spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** pp. 333–336.

Tritonidea, ODHNER **297.**

Trophon, CHRISTENSEN **71.**

†*Trophon priestleyi* **sp. n.** Quaternary, HEDLEY Brit. Ant. Exp. **1916** p. 85.—*T. perelegans* **sp. n.** Tertiary U.S.A., NOMLAND Berkely Cal. Pub. Bul. **10** p. 311.—*T. raymondi* **sp. n.** Tertiary U.S.A., MOODY Berkely Cal. Pub. Bul. **10** p. 53.

Tudicla, ODHNER **297.**

Typhis latipennis **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 239.

†*Typhis cercadicus* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 265.—*T.* (*Cyphonochilus*) *intergymnus* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 166.

†*Urosalpinx phriknos* **sp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 35.—*U.*, SHIMER **350.**

Usilla, COOKE **94.**

†*Vasum dominicense* **var. n.** *gurabicum* Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 248.

Vexilla, COOKE **94.**

Volutopsius rotundus, Alaska; *filosus*, Behring Sea; *middendorffi* var. *emphaticus, diminutus*, Japan Sea **spp. & var. n.**, DALL Proc. U.S. Nation Mus. **56** pp. 310–311.

†*Xancus praevoideus* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 247.

CYMATIDAE (*Lotoriidae olim*), CASSIDIDAE, TONNIDAE (*Doliidae olim*), CYPRAEIDAE, STROMBIDAE, APORRHAIDAE & STRUTHIOLARIIDAE.

Aporrhais, CHRISTENSEN **71.**

†*Aporrhais tenuistriata* **sp. n.** Cretaceous France, REPELIN in GUÉBHARD, LAMBERT & REPELIN Notes Provençales **6** p. 4.

†*Arrhoges*, COUFFON **100.**

†*Bursa bufoniopsis, amphitrites* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 271–272.

Cassis, ODHNER **297.**

Cymatium, ODHNER **297.**

Cypraea erosa with **var. n.** *kaolinica*, New Britain; *C. e.* **var. n.** *purissima* Queensland, VREDENBURG Calcutta J. As. Soc. Beng. **15** pp. 143–145.—*C. piriformis*, VREDENBURG **394.**—*C. nivosa*, VREDENBURG **392.**—*C.*, ODHNER **297.**

†*Cypræa noueli, patrespatriae* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer Pal. **5** pp. 278–280.—*C.* (*Eocypraea*) *sublandanensis* **sp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch. Schutzg. **12** p. 52.

†*Dicroloma zelandica* **sp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 228.—*D.*, COUFFON **100.**

†*Diempterus*, COUFFON **100**.

Doliidae, VREDENBURG **395**.

†*Doliidae*, VREDENBURG **395**.

Dolium variegatum, VREDENBURG **391**.—*D.*, ODHNER **297**.

†*Dolium variegatum*, VREDENBURG **391**.

†*Erato antiqua* **sp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 227.—*E. maugeriae* **var. n.** *domingensis* Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 282.

†*Gutturnium gracile* **var. n.** *gurabonicum* Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 271.

†*Lotorium praefemorale* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 270.

Morum with *M. praeclarum* **sp. n.** Hab (?), MELVILL Proc. Malac. Soc. **13** pp. 69–72.—*M.*, MELVILL **273**.

Ovula, ODHNER **297**.

†*Ovula* (*Neosimnia*) *wise-woodae* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 277.

†*Rimella* with *R. adriatica* **sp. n.** Eocene Croatia, DAINELLI Atti Soc. tosc. sc. nat. **32** pp. 52–53.

†*Rostellaria* (*Cyclomolops*) *subhumerosa* **sp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch. Schutzg. **12** p. 48.

†*Simpulum antillarum* **var. n.** *cercadicum* Tertairy S. Domingo, MAURY Bul. Amer. Pal. **5** p. 270.

Strombus, ODHNER **297**.

†*Strombus maoensis* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 284.

Tonna with *T. cerevisina* **sp. n.** N.S. Wales; *T.c.* **var. n.** *haurakiensis* New Zealand; *T. tetracotula* **sp. n.** N.S. Wales, HEDLEY Sydney Rec. Aust. Mus. **12** pp. 329–336.

Trivia with *T. bipunctata* **sp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 53.

†*Trivia islahispaniolae, suffusa* **var.** *sancti-dominici* **sp. & var. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 281.

CERITHIIDAE, PLANAXIDAE, NERINEIDAE, TRICHOTROPIDIDAE, VERMETIDAE, TURRITELLIDAE AND CAECIDAE.

†*Ataxocerithium perplexum* **sp. n.** Tertiary New Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. **51** p. 254.

†*Bayania semidecussata* [Lk.] race *tounoueri* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 181.

Bittium residuum **sp. n.** Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital. **3** p. 17.

†*Bittium oamaruticum* **sp. n.** Tertiary New Zealand, BARTRUM Trans. and Proc. N.Z. Inst. **51** p. 96.—*B.*, SHIMER **350**.

Bivonia scopulorum **sp. n.** Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital. **3** p. 14.

†*Brachytrema*, COUFFON **100**.

Caecum trachaea **var. n.** *littoralis* Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital. **3** p. 13.—*C.*, CHRISTENSEN **71**.—*C.*, MORSE **285**.

†*Caecum flemingi* **sp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 40.

Cerithidea multicostata **sp. n.** N. Guinea, SCHEPMAN Nova Guinea **13** p. 192.—*C.*, ODHNER **297**.

†*Cerithidea minuta* **sp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 226.

†*Cerithiella tricincta* **sp. n.** Tertiary New Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 226.

Cerithiopsis crocea **var. n.** *marmorea* N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 47.—? *C. sasseta* **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 345.

Cerithium with *C.* (*V.*) *attenuatum* **var. n.** *brevicaudatum* N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 47.

†*Cerithium* with *C. serratum* **var. n.** *sylvanectensis*, *C. tuberculosum* **var. n.** *cossmanni* Eocene, CHARPIAT Bul. Mus. Paris **1919** pp. 415–422 527–532 [varr. n. at pp. 417 422].—*C. russelli*, *gurabense* **sp. n.** Tertiary S. Domingo,

MAURY Bul. Amer. Pal. **5** pp. 286–288. —*C. lycovulcanum*, *C.* (*Tiaracerithium*) *lycotaurinium*, *C. assarense* **spp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** pp. 88–91.—*C.* (*Bittium* [?]) *wanneri* **sp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch. Schutzg. **12** p. 46.—*C.*, DAINELLI **109.**

Clava californica **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 346.

†*Cryptaulax*, COUFFON **100.**

†*Diastoma hypermeces* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 177.—*D.*, DAINELLI **109.**

? *Eglisia nebulosa* **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 348.

†*Exelissa*, COUFFON **100.**

†*Fastigiella australis* **sp. n.** Tertiary New Zealand, SUTER Trans. and Proc. N.Z. Inst. **51** pp. 68–69.

†*Hemicerithium subimbricatum* **sp. n.** Oligocene France, CROSSMAN J. Conchyliol. **64** p. 169.

Hirtocerithium, syrthicum, manuscriptum grossularium, exulceratum, clavium **spp. n.** Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital. **3** pp. 16–17.

Meioceras, MORSE **285.**

†*Mesalia koerti* **sp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch. Schutzg. **12** p. 44.

†*Paracerithium*, COUFFON **100.**

Petaloconchus montereyensis **sp. n.** California, DALL Washington Proc. Biol. Soc. **32** p. 250.

†*Petaloconchus laddfranklinae* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 293.

Pirenella cyclus **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 346.

Planaxis, ODHNER **297.**

Potamides, ODHNER **297.**

†*Potamides ormei*, **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 290.—*P.*, DAINELLI **109.**

†*Potamis* (?) *breberensis* **sp. n.** Eocene Croatia, DAINELLI Atti Soc. tosc. sc. nat. **32** p. 36.

†*Procerithium*, COUFFON **100.**

†*Pyrazus*, DAINELLI **109.**

†*Rhycocerithium*, COUFFON **100.**

Siliquaria, ODHNER **297.**

†*Siliquaria gurabensis* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 293.

Stylidium paganicum **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 345.

Telescopium, ODHNER **297.**

†*Telescopium*, DAINELLI **109.**

†*Tiaracerithium*, CHARPIAT **69.**

†*Tiarella*, CHARPIAT **69.**

†*Tiarellacerithium* **gen. n.** [*Cerithiidae*], CHARPIAT Bul. Mus. Paris **1919** p. 534.

Trachyrhynchus erosus, ? *T. pratomus, stearnsii* **spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** pp. 346–347.

†*Triforis* [*vide etiam Triphora*] *calypsonis* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 286.

Triphora [*vide etiam Triforis*] *bicincta* **sp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 47.

Tarritella, DAINELLI **109.**—*T.*, ODHNER **297.**

† *Turritella adabionensis, tokpliensis* **spp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch. Schutzg. **12** p. 41.—*T. submortoni*, **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 294.—*T. freya, margaritana* **spp. n.** Tertiary U.S.A., NOMLAND Berkely Cal. Pub. Bul. **10** p. 312.—*T. carica, araneosa* **sp. n.** Neogen, OPPENHEIM, Berlin Zs. D. geol. Ges. **70** pp. 56 81.—*T. duplinensis* **sp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 41.—*T. rudis* **sp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 227.—*T.* (*Haustator*) *myurelloides* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 184.—*T. terebralis* var. *applanata*, *T.* (*Haustator* ?) *vermicularis* var, *bijugata, atlantica* **varr.** & **sp. n.** Tertiary S.W. Africa, BÖHM Beitr. geol. Deutsch. Schutzg. **5** pp. 61–71.—*T.*, COUFFON **100.**

Turritellopsis (*acicula* var.) *stimpsoni* **nom. n.**, DALL Proc. U.S. Nation. Mus. **56** p. 347.

†*Tympanotonus*, DAINELLI **109.**

Vermetus, ODHNER **297.**

TIARIDAE (*Melaniidae olim*), PESUDOMELANIIDAE, PLEUROCERIDAE, LITTORINIDAE & FOSSARIDAE.

†*Bourguetia*, COUFFON **100.**

Cremnoconchus, ANNANDALE **7.**

†*Faunus*, DAINELLI **109.**

Fossarulus, GODWIN-AUSTEN **177.**

†*Fossarulus*, GODWIN-AUSTEN **177.**

Fossarus angiolus, lucanus **spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p 350.

†*Fossarus*, COSSMANN & PEYROT **99.**

Haloconcha minor **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 350.

Lacuna marmorata **sp. n.** *L.* **var. n.** *puteoloides* N. Pacific, DALL Proc. U.S. Nation. Mus. **56** pp. 348–349.—*L.*, CHRISTENSEN **70.**

†*Lacuna* with *L. bearnensis, L.* (*Pseudocirsope*) *degrangei, subscalata, burdigalica, L.* (*Cirsope*) *benoisti* **spp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 442–448.

Littorina, ANNANDALE & PRASHAD **11.**—*L.*, CHRISTENSEN **70.**—*L.*, DACIE **108.**

†*Littorina* with *L.* (*Melaraphe*) *sacyi, L.* (*Touzinia*) *prevostina* var. *perconfusa* **sp. & var. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 424–435.—*L.* with *L. headleyi* **sp. n.** Tertiary England, BELL Naturalist London 1919 p. 58.—*L.*, SHIMER **350.**

†*Littorinolacuna quincuncialis* **gen. & sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 187.

†*Loxonema*, REPOSSI **330.**

†*Melanella bartschi, magnoliana* **spp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 37.

Melania (*Stenomelania*) *lorentzi, M.* (*Melanoides*) *alkmaarensis, similis, striatissima* **spp. n.** New Guinea, SCHEPMAN Nova Guinea **13** pp. 174–175.—*M.*, ANNANDALE **5** & **7.**—*M.*, ANNANDALE & PRASHAD **11.**—*M.*, GERMAIN **170.**

†*Melania* (*Eumelania*) *bezieri* **sp. n**, Oligocene France, COSSMANN J. Conchyliol. **64** p. 179.—*M. diadeana, carica* **spp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** pp. 21–23.—*M.*, COSSMANN & PEYROT **99.**—*M.*, DIANELLI **109.**

Melanoides with *M. pyramis* **varr. n.** *leopardina, puteicola* Brit. India, ANNANDALE & PRASHAD Rec. Ind. Mus. Calcutta **16** p. 33.

Melanopsis with *M. deserticola* **sp. n.** Persia, ANNANDALE & PRASHAD Rec. Ind. Mus. Calcutta **16** p. 37.

†*Melanopsis*, COSSMANN & PEYROT **99.**

†*Pseudomelania*, COUFFON **100.**

†*Purpurina*, COUFFON **100.**

†*Risella*, COSSMAN & PEYROT **99.**

SOLARIIDAE, JEFFREYSIIDAE, LITIOPIDAE, RISSOIDAE, HYDROBIIDAE, VIVIPARIDAE, VALVATIDAE, AMPULLARIIDAE & ASSIMINEIDAE.

? *Alabina calena* **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 345.

†*Alaba* with *A. costellata* **varr. n.** *ventripotens* and *ecostata* Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 366–370.

†*Alvania* with *A. raulini, A.* (*Alvinia*) *peyreirensis* **spp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 377–387.

Amnicola cisternina, panzosensis, conchensensis, hinkleyi **spp. n.** Guatemala, WALKER Ann. Arbor Mich. Occ. Pprs. Mus. Zool. **73** pp. 1–4.—*A.* with **subgen. n.** *Alocinma*, *A.* (*A.*) *sistanica* **sp. n.** Brit. India, ANNANDALE & PRASHAD Rec. Ind. Mus. Calcutta **16** pp. 23 24.

Apicularia scurra **sp. n.** Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital. **3** p. 10.

Ampullaria (*Felipponea*) *neritiniformis* **sp. n.** Uruguay, DALL Nautilus **33** p. 10.—*A. mermodi* **sp. n.** *C.* America, SOWERBY Proc. Malac. Soc. **13** p. 152.—*A.*, ANNANDALE **7.**—*A.*, GERMAIN **170.**

Assiminea, ANNANDALE & PRASHAD **11.**

Bithinella [*vide etiam Bythinella*], ANNANDALE & PRASHAD **11.**

Bithynia, ANNANDALE **5.**—*B.*, CAZIOT **62.**

†*Bithynia* ? *giralanensis*, *pisidica* **spp .n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** pp. 134 208.

†*Bythinella* [*vide etiam Bithinella*] with *B. bearnensis* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes Soc. linn. **70** pp. 412–415.

Blanfordia nesophora, CORT **96.**

†*Ceratia* with *C. suturalis* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 395–396.

†*Cingula* with *C. vera* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 391–392.

Cleopatra pirothi **var. n.** *rufolirata* Upper Zambesi, GERMAIN Bul. Mus. Paris **1919** p. 119.

Discohelix, MESTAYER **274.**

Fenouilia, ANNANDALE & PRASHAD **12.**

†*Fluminicola* (*Gillia*) *lycica* **sp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 117.

Homalogyra atomus, MORSE **286.**—*H.*, CHRISTENSEN **71.**

Hydrobia, CHRISTENSEN **70.**

†*Hydrobia* with *H. ventrosa* var. *polysarca*, *H.* (*Tournoueria*) *girondica* var. *umbilicaris*, *H.* (*Peringia*) *cestasensis* and mut *sacyi*, *H.* (*Amnicola*) *leognanensis* **varr. mut. & spp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 399–411.

Hydrobiidae, ANNANDALE **8.**

Lanistes, GERMAIN **170.**

Larina, ODHNER **297.**

Lartetia serbica **sp. n.** Serbia, PAVLOVIC Glas. Srpska Akad. Belgrade **91** pp. 71–75.

Leachia, CAZIOT **62.**

†*Lithoglyphus* (?) *phrygicus* **sp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 135.

†*Manzonia*, COSSMANN & PEYROT **99.**

Mysorella **nom. n.** for *Mysoria*, GODWIN-AUSTEN Rec. Ind. Mus. **16** p. 431.

Mysoria **gen. n.** type *Bithynia costigera* K. var. *curta* Nev., GODWIN-AUSTEN Rec. Ind. Mus. Calcutta **16** p. 211.

Nodulus palmeri **sp. n.** Behring Sea, DALL Washington Proc. Biol. Soc. **32** p. 251.

†*Nystia* with *N. falunica* Benoist Mss., *N. degrangei* **spp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 421–422.

†*Oncomelania fragilis*, *conoidales* **spp. n.** Quaternary Burma, ANNANDALE Rec. Geol. Surv. Ind. **5** p. 226.

Paludestrina ventrosa **var. n.** *peculiaris* Mediterranean, MONTEROSATO Boll. Soc. zool. Ital. **3** p. 13.—*P. jenkinsi*, BOYCOTT **52.**

†*Paludestrina*, SHIMER **350.**

Paludina viripara, ARTOM **22.**—*P.*, ODHNER **297.**—*P.*, WALKER **396.**

Paludomus, ANNANDALE **7.**

Paraprososthenia, ANNANDALE & PRASHAD **12.**

†*Paraprososthenia* **gen. n.** (*Hydrobiidae*) *P. minula* **sp. n.** Quaternary Burma, ANNANDALE Rec. Geol. Surv. Ind. **5** pp. 228–230.

Parapyrgula **subgen. n.** (*Paraprososthenia*) with *P.* (*P.*) *coggini* **sp. n.** Yunnan, ANNANDALE & PRASHAD Rec. Ind. Mus. Calcutta **16** pp. 420 421.

†*Prososthenia phrygica*, *sublaevis*, *P.* (?) *erythraeensis* **spp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** pp. 148–150 200.

†*Pseudamnicola*, COSSMANN & PEYROT **99.**

Rissoa, CHRISTENSEN **70.**

†*Rissoa* with *R. orthezensis* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** p. 374.

Rissoina, ODHNER **297.**

†*Rissonia* with *R. elongata* var. *scalarata* & mut. *mancietensis*, *R. bearnensis*, *emiliae*, *bistriata* var. *stephaniensis*, *R.* (*Rissolina*) *aturensis*, *R.*

(*Zebinella*) *degrangei* mut. var. & spp. n.; *R.* (*Z.*) *recticostulata* mut. n.; *R.* (*Z.* ?) *syrtica*, *R.* (*Zebina*) *aquitanica* spp. n. Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 332–356.

†*Scaliola* with *S. degrangei* descr. Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** p. 397.

†*Setia*, COSSMANN & PEYROT **99.**

Skenea, CHRISTENSEN **71.**

†*Solarium stonemanae* [? sp. n.] Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 296.—*S. ianthinae* sp. n. Eocene U.S.A., VAN WINKLE Bul. Amer. Pal. **8** p. 8.—*S.* with *S. stephanense*, *micromphalus*, *flicki*, *S.* (*Nipteraxis*) *peyreirense*, *merignacense*, *S.* (*Pseudotorinia*) *angustiforatum*, *burdigalense*, spp. n. Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. Linn. **70** pp. 452–475.

†*Stalioa*, COSSMANN & PEYROT **99.**

Stenothyra echinata, *soluta*, spp. n. Brit. India, ANNANDALE & PRASHAD Rec. Ind. Mus. Calcutta **16** p. 247.

†*Stenothyra* with *S. aquitanica* sp. n. Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 415–416.

†*Stossicia* with *S. planaxoides* mut. n. *helvetica* Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 359–362.

†*Taia* with subgenn. n. *Crassitaia*, *Rivularioides*; *T.* (*C.*) *infracrassata*; *T.* (*R.*) *spinifera*, spp. n. Quaternary Burma, ANNANDALE Rec. Geol. Surv. Ind. **5** pp. 234 236.

†*Turbella* with *T.* (*Pusillina*) *degrangei* sp. n. Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** p. 376.

Valvata pisidica sp. n. Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 206.—*V.*, ANNANDALE **5.**—*V.*, CAZIOT **62.**

Vivipara [*vide etiam Viviparus*] *bukowskii* sp. n. Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 207.—*V.*, ANNANDALE & PRASHAD **14.**—*V.*, ANNANDALE **5.**—*V.*, GERMAIN **170.**

Viviparidae, ANNANDALE **8.**

Viviparus [*vide etiam Vivipara*] with *V. burroughianus trinominis* nom. n. for *Paladina carinata*, Val., WALKER Nautilus **32** p. 120.

Zippora augustior sp. n. Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital. **3** p. 9.

CYCLOPHORIDAE, CYCLOSTOMATIDAE & TRUNCATELLIDAE.

Acicula, CAZIOT **62.**

Adelomorpha lorentzi, Aru Isds., *A. campanulata*, N. Guinea, spp. n., SCHEPMAN Nova Guinea **13** pp. 178–179.

†*Coxiella*, CHAPMAN **66.**

Cyathopoma africanum sp. n. Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 328.

Cyclostoma, CAZIOT **62.**

Hartmannia septemspiralis, HUGGINS **210.**

Hedleya umbilicata sp. n. S. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 75.

Lagochilus gudei sp. n. N. Guinea, SCHEPMAN Nova Guinea **13** p. 178.

Leptopoma maubaneise makabengana subsp. n. Philippines, BARTSCH Washington Nation. Mus. Proc. **55** p. 306.—*L. melanostoma* var. n. *rufolabiata* N. Guinea, SCHEPMAN Nova Guinea **13** p. 177.—*L. goniostoma cotabatensis*, *nitidum weeksi* subspp. n. Philippines, BARTSCH Washington Proc. Biol. Soc. **32** pp. 18–19.—*L.*, ODHNER **297.**

†*Omphalotropis minuta* sp. n. N. Australia Quaternary, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 99.

Opisthosiphon berryi sp. n. Cuba, CLAPP Nautilus **32** p. 86.

Pupina, ODHNER **297.**

Pupinella, ODHNER **297.**

Tropidophora standeni sp. n. Madagascar, SPENCE J. Conch. Leeds **16** p. 43.

Truncatella truncatula var. n. *improvisa* Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital. **3** p. 13.—*T. truncatula*, MORSE **286.**

†*Truncatella*, COSSMANN & PEYROT **99.**

CAPULIDAE, XENOPHORIDAE, NARICIDAE, ADEORBIIDAE, LAMELLARIIDAE & NATICIDAE

†*Adeorbis novi-castri*, *A.* ? *virginiensis*, **spp. n.** Eocene U.S.A., VAN WINKLE Bul. Amer. Pal. **8** p. 9.—*A. tenuiliratus* **sp. n.** Montien Belgium; *A. simplex*, *montensis* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pp. 60–62 pl. iv. figs. 17–25.

†*Amauropsis guppyi* **var. n.** *gurabensis* Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 302.—*A.*, COUFFON **100.**

†*Ampulina lavallei* **fig.** *A. montensis* **sp. n.** Montien Belgium, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pp. 66–67 pl. iv figs. 43–50.—*A.* with *A. sancti-stephani*, *peyreirensis* **spp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 241–248.—*A.*, COUFFON **100.**

†*Calyptraea montensis* **sp. n.** Montien Belgium, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pp. 70–71 pl. iv figs. 60–68.—*C.* with *C. sallomacensis* **mut. n.** *C. cestasensis* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 269–281.

†*Capulus* (*vel Hipponyx*) *inevolutus* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. iv figs. 54–59.—*C.* with *C. hungaricus* mut. *syrticus*, *C. benoisti*, *C.* (*Capulacmaea*) *merignacensis* **mut.** & **spp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 299–309.

Crepidula orbiculata **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 351.—*C.*, GOULD **179.**—*C.*, CONKLIN **90.**—*C.*, ODHNER **297.**

†*Crepidula*, COSSMANN & PEYROT **99.**—*C.*, SHIMER **350.**

†*Crommium* with *C. aturense* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 250–251.

†*Crucibulum* with *C.* (*Dispotaea*) *biali* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 291–297.

Cryptonatica salimba, *aleutica* **spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** pp. 351–352.

†*Deshayesia miloni* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 191.

†*Diaphorostoma hillsboroensis* **sp. n.** Silurian Ohio, FOERSTE Ohio Nat. **19** p. 385.

Elachisna grippi **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 354.

Euspira acosmita monterona, *politiana*, *canonica* **spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** pp. 252–253.

Hipponyx, ODHNER **297.**

†*Hipponyx*, COSSMANN & PEYROT **99.**

Lamellaria, CHRISTENSEN **71.**

†*Mitrularia* with *M. falloti* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 322–323.

Natica, ODHNER **297.**

†*Natica* (*Sigaretopsis*) *corneti*, *N.* (*Naticina*) *briarti*, *N. wateleti* **fig.**, *N.* (*Cepatia*) *miliola* **spp. n.** Montien Belgium, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pp. 63–65 pl. iv figs. 30–42.—*N.* with *N. pachyope*, *N. saucatsensis* mut. *avitensis*, *N. plicatelloides*, *sacyi*, *angyglossa*, *degrangei*, *N.* (*Tectonatica*) *tectula* mut. *bearnensis*, *N.* (*T.*) *parvuloides*, *N.* (*Lunatia*) *benoisti*, *varians* var. *meridionalis*, **spp. mutt.** & **var. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 182–240.—*N. youngi* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 299.—*N.* (*Labellinacea*) *tournoueri* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 192.—*N.*, COUFFON **100.**—*N.*, DAINELLI **109.**

†*Neverita nereidis* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 301.

†*Platyceras*, COBBOLD **84.**—*P.*, FOERSTE **147.**

†*Polinices stanislas-meunieri* [? **sp. n.**] Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 300.—*P.*, SHIMER **350.**

Ruma subfusca **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 353.

Sigaretus, ODHNER **297.**

Sinum pazianum, *keratium* **spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 354.

†*Sinum nolani* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 303.

Torellia ammonia, vallonia **spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 355.

†*Tornus* with *T. orthezensis, gymnospira* and var. *gymnobasis, subcirculus* **spp. & var. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 25–36.

Velutina granulata **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 355.—*V. rubra* **sp. n.** Alaska, WILLETT Nautilus **33** p. 25.

†*Xenophora*, DAINELLI **109.**—*X.*, COSSMANN & PEYROT **99.**

EPITONIIDAE (*Scalidae olim*).

†*Aclis* (*Graphis*) *formosa* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. iv figs. 15–16.—*A. acuminatoides* **sp. n.** Tertiary S.Domingo, MAURY Bul. Amer. Pal. **5** p. 305.

†*Cirsotrema* (*Coroniscala*) *tournoueri* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. iv fig. 29.

Crossea cuvieriana **sp. n.** New Zealand, MESTAYER Trans. and Proc. N.Z. Inst. **51** p. 132.

Epitonium (*Asperoscala*) *tinctorium, kerratum, canna, E.* (*Nitidoscala*) *barbarinum, phanium, callipeplum,* **spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** pp. 240–241.

†*Epitonium muldrowi* **sp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 36.—*E. riparum, cercadicum, textuvestitum,* **spp. n.** Tertiary S Domingo, MAURY Bul. Amer. Pal. **5** pp. 303–304.—*E. tenuispiralis* **sp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 227.

Scalaria evicta, regiomontana **spp. n.** Pacific Coast of N. America, BOURY DE J., Conchyliol. **64** pp. 36 39.—*S.*, BOURY DE **47.**

†*Scalaria pseudolineata, sublineata, shattucki* **spp. n.** Tertiary, BOURY DE J. Conchyliol. **64** p. 38.

STROMBIFORMIDAE (*Eulimidae olim*) & PYRAMIDELLIDAE.

†*Actaeopyramis* with *A. hypermeces, merignacensis* **spp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 135–140.

Æsopus sanctus **sp. n.** California, DALL Washington Proc. Biol. Soc. **32** p. 250.

†*Anisocycla* with *A. perspicua* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 179–180.

Auristomia ignorata **sp. n.** Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital. **3** p. 15.

†*Chemnitzia*, SCHÄFER **339.**

†*Chrysallida*, COSSMANN & PEYROT **99.**

Eulima, ODHNER **297.**

†*Eulima* with *E. similis* var. *ventripotens, E. vignali, E.* (*Polygyreulima*) *fontinensis, E.* (*Subularia*) *benoisti* **var. & spp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 61–77.—*E.* (*Margineulima*) *levis, E.* (*Rostreulima*) *lata, E.* (*Subularia*) *vicina* **fig.**; *E.* (*S.*) *planispira* **sp. n.** Montien Belgium, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pp. 55–58 pl. iv figs. 3–14.

†*Eulimella* with *E. burdigalica, contabulata* and *c.* mut. *gamachotensis, E.* (*Liostomia*) *hydroliopsis* **spp. & mut. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 173–178.

Graphis shepardiana **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 242.

†*Hordeulima*, COSSMANN & PEYROT **99.**

†*Macrodostomia* with *M. saucatsensis,* **sp. n.** *M. merignacensis* **mut. n.**, *M. asthenoptyxis* and var. *lagusensis* **sp. & var. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 110–114.

†*Melanella* (*Eulima*) *cercadica, maoïca, jacululum, tethyos.*, **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 306–307.

Mucronalia, ODHNER **297.**

†*Niso* with *N. degrangei* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 81–84.

†*Odontostomia deshayesi* **fig.**; *O. corneti* **sp. n.** Montien Belgium; *O. conjungens, briarti* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pp. 50–51 pl. iii figs. 69–74 77–82.—*O.* with *O. polysarcula, subintermedia, sallespissensis, O.* (*Cyclodostomia*) *aturensis, O.* (*Auristomia*) *degrangei, aquitanica* and var. *bulimina*, **spp.** & **var. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 114–128.

†*Odostomia sancti-dominici, yaquica* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 315.—*O.*, SHIMER **350.**

†*Promathildia*, MARIANI **259.**

Pyramidella, ODHNER **297.**

†*Pyramidella semicanaliculatas, diademata olssoni; P.* (*Callolongchaeus*) *cercadensis, P.* (*Orinella*) *arionis* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 308–310.—*P.* with *P. grateloupi* d'Orb. var. *stenogyra, P. g.* var *eurygyra, P. g.* mut. *eurybasis* **varr** & **mut. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 87–98.

†*Pyramidelloides*, COSSMANN & PEYROT **99.**

†*Pyrgostylus* with *P. amoenus, aturensis, diastomoides, sallomacensis* **spp. n.** *P. s.* **mut. n.** *oligocolpus* Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 165–172.

†*Pyrgulina* with *Pyrguletta* **sec. n.** & *Pyrgulina sacyi, sextona, P.* (*P.*) *degrangei* **spp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 129–133.

†*Strombiformis dalli* **sp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 39.

Stylifer, CHRISTENSEN **71.**

†*Stylifer* with *S. inopinatus* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** p. 78.

†*Syrnola* with *S. subumbilicata* [Grat] mut. *bearnensis, S. colpodes, sallomacensis, S.* (*Pachysyrnola*) *cuneolus* **mut.** & **spp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 90–100.—*S.* (*Cossmannica*) *zonifera* **sp. n** Montien Belgium; *S.* (*C.*) *extensa, S. briarti, conica* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pp. 46–47 pl. iii figs. 63–68 75–76 83–84.

†*Turbonilla* with *T. falloti, avitensis, spiculoides, saccoi, T.* (*Strioturbonilla*) *raphidiopsis, flexicostata, benoisti, T.* (*Pyrgolidium*) *continuicosta, sallomacensis*, **spp. n.** *T.* (*P.*) *degrangei* **nom. mu.** for *T. parva* D.-T.; *T.* (*Pyrgostelis*) *saucatsensis* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 141–164.—*T. polaris* **sp. n.** Quaternary, HEDLEY Brit. Ant. Exp. **1916** p. 84.—*T. antiqua* **sp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 228.—*T.* (*Chemnitzia*) *ogilviea, yaquensis, cercadensis, T.* (*Pyrgiscus*) *Karlschmidti, olssoni, riomaoënsis, T.* (*Mormula*) *nanniebellae* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 311–315.—*T.*, SHIMER **350.**

PROSERPINIDAE & HELICINIDAE.

Aphanoconia leucostomoides, rufo-unistrigata **spp. n.** N. Guinea, SCHEPMAN Nova Guinea **13** p. 180.

†*Aphanoconia extincta* **sp. n.** N. Australia Quaternary, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 98.

Helicina (*Idesa*) *ochsneri* **sp. n.** Galapagos Isds., DALL Proc. Cal. Acad. Sci. **2** p. 382.

Schasicheila hinkleyi **sp. n.** Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. **1919** p. 221.

Xenodiscula venezuelensis **sp. n.** Venezuela, PILSBRY Proc. Acad. Nat. Sci. Philadelphia **71** p. 206.

NERITIDAE, NERITOPSIDAE, TURBINIDAE, TROCHIDAE, & ORBITESTELLIDAE (*Cyclostrematidae olim*).

Astraea (*Pachypoma*) *inaequalis* var. *pacifica, barbarensis, spirata* **spp.** & **var. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** pp. 356–357.

†*Astralium sublongispinum, karlschmitdti* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 318–319.

†*Ataphrus*, COUFFON **100.**

†*Calliomphalus firketi* **fig.**; *C. ochetophorus* Cossm. **sp. n.** Montien Belgium, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pp. 22–23 pl. ii figs. 35–42.—*C.*, COUFFON **100.**

Calliostoma costatum **var. n.** *caeruleum* & *pictum, canaliculatum* **varr. n.** *nebulosum* & *transliratum* N. Pacific, DALL Proc. U.S. Nation. Mus. **56** pp. 359–360.

†*Calliostoma grabani* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 319.

Chlorostoma gallina var. *umbilicatum, brunneum* var. *fluctuosum* **varr. n.** N. Pacific. DALL Proc. U.S. Nation Mus. **56** p. 359.

? *Cithna orvieta* **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 251.

? *Circulus rossellinus* **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 368.

†*Circulus inornatus* **sp. n.** Tertiary New Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 226.—*C. cingulatus* **sp. n.** Tertiary N. Zealand, BARTRUM Trans. and Proc. N.Z. Inst. **51** p. 97.

†*Collonia tenuizonata* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 197.—*C. crenulata, inornata, C.* (*Parvirota*) *radiata* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. iii figs. 21–34.

†*Cyclostrema megalomphalus* Crosse **sp. n.** Montien Belgium, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** p. 21 pl. ii figs. 5–8.—*C.*, COSSMANN & PEYROT **99.**

Delphinula distorta **var. n.** *zonata* N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 45.

†*Delphinula nodosospinosa* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. ii figs. 12–14.

†*Discopsis derbyi* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 320.

Dostia with *D. platyconcha* **sp. n.** Brit. India, ANNANDALE & PRASHAD Rec. Ind. Mus. Calcutta **16** p. 244.

†*Elenchus* (*Thalotia*) *falyanus, quadrangulatus, hannonicus* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. iii figs. 1–6 49–50.

Euchelus, ODHNER **297.**

†*Eucyclus*, COUFFON **100.**

Ganesa (*Granigyra*) *piona, filosa* **spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 368.

†*Gibbula* (*Phorculus*) *briarti* **fig.**, COSSMANN Mem. Mus. R. Hist. Belgique Nat. **6** pl. iii figs. 7–11.

Isselica obtusa **var. n.** *laxa* N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 251.

Jujubinus matoni, Payr. **var. n.** *grisea* Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital. **3** p. 8.

Leptothyra juanensis **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 358.

†*Leucorhynchia nitida* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. iii figs. 39–41.

Liotia suteri **sp. n.** Bounty Isds., MESTAYER Trans. and Proc. N.Z. Inst. **51** p. 130.—*L. scitula* **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 358.

†*Liotia* (*Arene*) *major* **sp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 42.

Margarites pauperculus, M. (*Pupillaria*) *kamchaticus, healyi, helicinus* varr. *elevatus* & *excavatus, M. pribiloffensis frigidus, marginatus, hypolispus* **spp.** & **varr. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** pp. 363–367.

Mölleria drusiana **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 358.

Monodonta, ODHNER **297.**

†*Monodonta incerta* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. i figs. 61–62.—*M.*, COUFFON **100.**

Nerita, ODHNER **297.**

†*Nerita* with *N. funata* var. *barrerei*, *N.* (*Odontostoma*) *sancti-Stephani* **var.** & **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 40–48.

Neritilia, PILSBRY **317.**

Neritina (*Neritaea Auriculatae*) *transversecostata*, *N.* (*Neritodryas*) *simplex*, New Guinea; *N.* (*Clithron*) *wallacei* var. *spinosa* Aru. Ids., **spp.** & **var. n.**, SCHEPMAN Nova Guinea **13** pp. 181–183.

†*Neritina percarinata*, *bukowskii*, *denisliiensis*, **spp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** pp. 128 150–151.—*N.* with *N.* (*Smaragdia*) *merignacensis* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 49–59.—*N. fabula*, *montensis* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. iii figs. 54–56 59–62.—*N.* (*Puperita*) *figulopicta*, *N.* (*Smaragdia*) *viridemaris*, **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 316.—*N.* with *N. bezieri* **sp. n.** Eocene France, DALIMIER Paris Bul. soc. géol. **17** pp. 36–39.

†*Neritopsis multicostata* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. iii. figs. 51–53.—*N.*, COSSMANN & PEYROT **99.**—*N.*, COUFFON **100.**

Omphalius marianus **nom. n.** for *O. coronatus*, Pils., DALL Proc. U.S. Nation. Mus. **56** p. 359.

Orbitestella hiniemoa **sp. n.** Snares Isds., MESTAYER Trans. and Proc. N.Z. Inst. **51** p. 131.

†*Pareuchelus lefevrei* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl iii figs. 42–44.

†*Phasianella altyensis* **sp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 80.

†*Rotellorbis* with *R. benoisti*, *vignali* **spp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 19–24.

Seguenzia certoma, *giovia*, *cervola*, *caliana*, **spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** pp. 243–244.

Solariella tavernia, *S.* (*Solaricida*) *hondoensis*, *S. diomedea*, *myssona*, *delicata*, *koreanica* **spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** pp. 360–362.

†*Solariella ladrierei*, *multilineata* **fig.**; *S. vincenti* **sp. n.** Montien Belgium; *S. rutoti* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pp. 29–31 pl. ii figs. 61–63 pl. iii figs. 12–20.—*S. godineanensis* **sp. n.** Eocene Trinidad, VAN WINKLE Bul. Amer. Pal. **8** p. 26.

†*Submargarita* ? *tricincta* **sp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 227.

†*Tegula thea*, *varistriata* **spp. n.** Tertiary U.S.A., NOMLAND Berkely Cal. Pub. Bul. **10** pp. 310–311.

Teinostoma (*Pseudorotella*) *sapiella*, *bibbiana*, *salvania*, *cecinella* **spp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 369.

†*Teinostoma sandomingense* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 320.

†*Tinostoma* with T. *epichrismatum*, *T.* (*Megatyloma*) *neritinoides*, *T.* (*Solariorbis*) *degrangei*, *biali*, *planibasis* **spp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes Soc. linn. **70** pp. 7–18. *Tinostoma bilabratum*, *T.* (*Megatyloma*) *briarti* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pls. i figs. 59–60 ii figs. 1–4.

Tricoliella hobarti **var. n.** *carissima*, *T. candidula* **sp. n.** Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital. **3** p. 9.

†*Trochonema*, FOERSTE **147.**

Trochus, DEBAISIEUX **125.**—*T.*, ODHNER **297.**

†*Trochus* (*Zizyphinus*) *lycicus* **sp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 77.—*T.* (*Tectus*) *carinidentatus*, *dentulifer*, *lefevrei*, *simplicilineatus*, *houzeaui* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. ii figs. 15–34.—*T.*, CHRISTENSEN **70.**

Turbo, ODHNER **297.**

†*Turbo postulatus* **sp. n.** Tertiary N. Zealand, BARTRUM Trans. and Proc. N.Z. Inst. **51** p. 100.—*T. crenulatoides*, *dominicensis* var. *laloi* **sp.** & **var. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 317.

Turcica, ODHNER **297.**

Vanikoro, ODHNER **297.**

STOMATIDAE, COCCULINIDAE, HALIOTIDAE, PLEUROTOMARIIDAE, BELLEROPHONTIDAE & FISSURELLIDAE.

Cocculina casanica **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 356.

Emarginula, ODHNER **297.**

†*Emarginula corneti, montensis, beclardi* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. i figs. 39–42 46–49.—*E.*, COUFFON **100.**

†*Fissurella concentrica, corneti, dolloi* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. i figs. 27–32 36–38.

†*Fissuridea henekeni* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 321.

Gena strigosa **var. n.** *minor* N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 43.

Glyphis, ODHNER **297.**

Haliotis cracherodii **form. n.** *imperforata* N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 370.

†*Leptomaria*, COUFFON **100.**

†*Lophospira pulchra* **sp. n.** Silurian Canada, WILLIAMS Canada Dept. Mines Geol. Surv. Mem. **111** p. 123.

†*Pleurotomaria*, COUFFON **100.**—*P.*, WILLIAMS **405.**

†*Rimula praeintorta* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. i figs. 43–45.

Schismope caliana **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 370.—*S.*, MESTAYER **274.**

Scissurella chiricova **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 370.—*S.*, MESTAYER **274.**

†*Scissurella corneti* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. i figs. 53–55.

†*Scutum* (*Proscutum*) *montense* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. i figs. 50–52.

Scutus, ODHNER **297.**

†*Tugalia kawaensis* **sp. n.** Tertiary N. Zealand, BARTRUM Trans. and Proc. N.Z. Inst. **51** p. 100.

†*Worthenia*, MARIANI **259.**

ACMAEIDAE & PATELLIDAE.

Acmaea, ODHNER **297.**

Cellana radians, THOMSON **376.**

Helcion pellucidum, MORSE **286.**

†*Helcion simplex* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. i figs. 23–26.

Patella, DEBAISIEUX **125.**

†*Patella vincenti, regularis, montensis* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. i figs. 12–17 20–22.

†*Scenella antiqua, depressa* **spp. n.** Cambrian Norway, KIÆR Skrift. Vid. Christiania **1916** pp. 17–18.

INCERTAE SEDIS.

†*Angarina spinosa* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. ii figs. 9–11.

†*Helcionella*, COBBOLD **84.**

Polyenaulus **nom. n.** for *Coelocentrus*, Zittel 1882, ETHERIDGE Queensland Geol. Surv. Pub. **260** p. 16.

†*Stenotheca*, COBBOLD **84.**

"*Stylobates aeneus*," DALL **116.**

Opisthobranchia (INCLUDING PTEROPODA & HETEROPODA).

Actaeon tornatilis **var. n.** *ancilla* Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital. **3** p. 25.

†*Actaeon riomaensis* **sp. n.** Tertiary San Domingo, MAURY Bull. Amer. Palaeont. **5** p. 175.

Acteocina smirna, magdalenensis **spp. n.** California, DALL Proc. U.S. Nation. Mus. **56** p. 296.

†*Acteocina* (*Cylichnella*) *triticum-tritonis* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 178.

Aplysia limacina & *A. depilans*, JORDAN **224.**

Atys, ODHNER **297.**

†*Atys doliolum* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 182.

Bulla tenuisculpta, **sp. n.** S.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 12.

Bullaria quoyana **sp. n.** California, DALL Proc. U.S. Nation. Mus. **56** p. 300.

†*Bullaria sarahberlinerae* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 183.

Carinaria latidens **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 242.

Ceratosoma corallinum **sp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 60.

Chromodoris zebra, CROZIER **105.**—*C.*, AREY & CROZIER **21.**

†*Caleoloides*, COBBOLD **84.**

Cylichnella (*Bullinella*) *diegensis* **sp. n.** California. DALL Proc. U.S. Nation. Mus. **56** p. 300.

Diaphana brunnea, Alaska; *D. californica*, California **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** p. 299.

Doridopsis guttata **sp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 62.

†*Fordilla*, COBBOLD **84.**

Haminaea olgae **sp. n.** California, DALL Proc. U.S. Nation. Mus. **56** p. 300.

†*Hyolithus* with *H. corrugatus* **sp. n.** Cambrian Norway, KIÆR Skrift. Vid. Christiania **1916** pp. 25–26.—*H.* with *H.* (*H.*) *biconvexus*, *willsi*, *aequilateralis* **spp. n.** Cambrian England, COBBOLD London Geol. Mag. **6** pp. 149–134.

Madrella, ODHNER **297.**

Philine bakeri, S. Coronado Isd.; *P. hemphilli*, California **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 300-301.

Pleurobranchaea, HIRSCH **207.**

Retusa xystrum, *paziana*, California; *R. galapagana*, Galapagos **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** p. 297.

†*Retusa frigida* **sp. n.** Quaternary, HEDLEY Brit. Ant. Exp. **1916** p. 88.—*R. yaquensis* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 181.

Ringicula caeca **sp. n.** Brit. India, ANNANDALE & PRASHAD Rec. Ind. Mus. Calcutta **16** p. 254.

†*Ringicula dominicana* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 185.

†*Roxania tournoueri* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 199.

Runcina calaritana **sp. n.** Mediterranean, COLOSI Torino Mem. Acc. sc. **66** No. 6 pp. 1–35.

†*Salterella*, COBBOLD **84.**

Scaphander willetti **sp. n.** Alaska, DALL Proc. U.S. Nation. Mus. **56** p. 299.

Stiliger tentaculatus **sp. n.** Siam, ELIOT Calcutta J. As. Soc. Beng. **6** pp. 179–182.

†*Styliolina*, KINDLE **235.**

†*Sulcoactaeon*, COUFFON **100.**

†*Tentaculites mackenziensis* **sp. n.** Devon. Canada, KINDLE Mus. Bul. Dept. Mines Canada geol. Ser. No. **76** **29** p. 6.

†*Torellella laevigata* **var. n.** *holmi* Cambrian Norway, KIÆR Skrift. Vid. Christiania **1916** p. 20.

†*Tornatellaea*, COUFFON **100.**

†*Tornatina angelinae* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **8** p. 17.—*T.*, SHIMER **350.**

Treoclyana marginata **sp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 62.

Volvulella cooperi, *californica*, California; *V. panamica*, *catharia*, Panama; *V. callicera* Galapagos **spp. n.**, DALL Proc. U.S. Nation. Mus. **56** pp. 297-299.

Pulmonata.

TESTACELLIDAE & SELENITIDAE.

Cochlicopa lubrica, BOYCOTT **51.**—*C.*, PEARCE **312.**—*C.*, CAZIOT **62.**

Edentulina langiana **sp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 171.

Gonaxis cavallii ituriensis; *G.* (*Eustreptaxis*) *micans* **mut.** *apertus* **subsp. & mut. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat Hist. **40** pp. 177–178.

Gulella **secc. n.** *Primigulella, Plicigulella, Pupigulella, Silvigulella, Costigulella, Tortigulella, Conogulella, Avakubia; G.* (*Plicigulella*) *bistriplicina, mediafricana; G. socialis, disseminata, cymatonotus, rutshuruensis, lessensis; G.* (*Paucidentina*) *polloneriana, maspisiensis, m. palatidens,* **chapini**; *G.* (*Pupigulella*) *pupa ituriensis, G.* (*Silvigulella*) *osborni; G.* (*Costigulella*)*l angi, torticostata; G.* (*Tortigulella*) *heteromphala, cara; G.* (*Conogulella*) *conospira polynematica; G.* (*Avakubia*) *avakubiensis* **spp. & subspp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 215–234.

Marconia lata ruwenzoriensis, gibbosa humilior **subspp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 174–175.

Orthogibbus **gen. n.,** GERMAIN [*Streptaxidae*] Bul. Mus. Paris **1919** p. 264.

Ptychotrema **secc. n.** *Ptychoön, Haplonepion; P. sororcula, walikalense, edgarianum, sublimbatum, myrmecoön, P.* (*Ennea*) *bequaerti thyrillense, fraterculus, silvaticum, monotes; P.* (*Parennea*) *mukulense, cylindrus, aequatoriale* **spp. & subsp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 201–213.—*P. Katangense*, P. & B. **nom. n.** for *Ennea joubini* Dtz. & Germain 1914 *non. E. j.* Germain 1912, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 214.

Salasiella with *S. hinkleyi* **sp. n.** Mexico; *S. guatemalensis*, **sp. n.** Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. **1919** pp. 212–213.

†*Streptaxis* (*Artemon*) *bicaensis* **sp. n.** Tertiary Portugal, ROMAN Com. Com. Surv. Geol. Portugal **12** p. 89.

Streptostele **subgenn. n.** *Stereostele, Graptostele; S. zambiensis, leopoldvillensis, langi, bequaerti, centralis, c. coloba, dautzenbergi, bacillum, S.* (*Tomostele*) *congoris, S.* (*Graptostele*) *teres* **spp. & subsp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 183–192.

Testacella, CAZIOT **62.**—*T.*, COLOSI **89.**—*T.*, FORTIER **149.**

Varicostele **gen. n.**; *V. becquaertiana, subvaricosa major, rutshuruensis, lessensis* **spp. & subsp. n.** Belgian Congo PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 193 195–197.

ARIONIDAE, LIMACIDAE, PHYLOMYCIDAE & ZONITIDAE.

Amalia, ODHNER **297.**

Aneitea, ODHNER **297.**

†*Archaeozonites choffati* **sp. n.** Tertiary Portugal, ROMAN Com. Com. Surv. Geol. Portugal **12** p. 75.

Arion with *A. ater* **var. n.** *salmolateralis* England, ROEBUCK J. Conch. Leeds **16** p. 9.—*A.*, CAZIOT **62.**

Atopos, ODHNER **297.**

Atoxon flavum rutshurense, faradjense **subsp. & sp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 289–290.

Bukobia cockerelli **sp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 294.

Dendrolimax osborni **sp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 291.

Euconulus, BERRY **38.**

Guppya elegantula, jalisco **spp. n.** Mexico, PILSBRY Proc. Acad. Nat Sci. Philad. **1919** pp. 215–216

Gymnarion **gen. n.** *G. medjensis* **sp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 275–277.

Helicarion with *H. bullaceus* **sp. n.** N. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 77.

Helicarion **subgenn. n.** *Entagaricus, Augustivestis; H.* (*Granularion*) *subsucculentus; H.* (*E.*) *entagaricus; H.* (*A.*) *niger, bequaerti, ruwenzoriensis* **spp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 266–273.

Hemig'ypta webbi **sp. n.** Philippines, BARTSCH Washington Proc. Biol. Soc. **32** p. 15.

Hemiplecta crenocarinata, densegranosa **spp. n.** New Guinea, SCHEPMAN Nova Guinea **13** pp. 157-158.

Hyalina (*Euryhyalina*) *subglabra* **var. n.** *speicola* Britany, PIAGET Neuchatel Bull. Soc. Sci. Nat. **41** p. 52.

Koratia **gen. n.** Type *Helix distincta*, Pfr., GODWIN-AUSTEN Rec. Ind. Mus. Calcutta **16** p. 202.

Ledoulxia lessensis **sp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 248.

Limax, CAZIOT **62.**—*L.*, COLOSI **88.**—*L.*, ODHNER **297.**

Macrochlamys novoguineensis **sp. n.** New Guinea, SCHEPMAN Nova Guinea **13** p 159.—*M. suturalis* **sp. n.** N. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 77.

Mesafricarion **gen. n.** *Belonarion* **subgen. n.**; *M. maculifer*; *M.* (*B.*) *pulzeysi* **spp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 259–263.

Microcystis with *M. fulva* **sp. n.** N. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** pp. 77 & 78.

†*Microcystis antiqua* **sp. n.** N. Australia Quaternary, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 97.

Parmacochlea, ODHNER **297.**

Pleuroprocta silvatica, *s. walikalensis* **spp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 319–320.

Polita cumberlandiana **sp. n.** Tennessee, CLAPP Nautilus **33** p. 8.—*P.*, BERRY **38.**

Pseudokyalina maya Guatemala; *P. opal*, Nicaragua, **spp. n.**, PILSBRY Proc. Acad. Nat. Sci. Philad. **1919** p. 216.

Rhytida, ODHNER **297.**

Sitala gradata, *lorentzi*, *fragilis*, **spp. n.** New Guinea, SCHEPMAN Nova Guinea **13** p. 160.—*S.*, ODHNER **297.**

Striatura, BERRY **38.**

Thapsia zambiensis, *stanleyvillensis*, *rutshuruensis*, *pompholyx cinnamomeozonata*, *c. semlikiensis*, *eucosmia*, *mukalensis*, *rufescens*, **spp. & var. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 237–242.

Thysanophora rhoadsi **sp. n.** Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. **1919** p. 217.

Trochomorpha repanda pagbilaoensis **subsp. n.** Philippines, BARTSCH Washington Proc. Biol. Soc. **32** p. 16.—*T. lancasteri* **sp. n.** China, GUDE Proc. Malac. Soc. **13** p. 118.

Trichotoxon pollonerœ, *maculatum perforatum*, *T.* (*Polytoxon*) *ruwenzoriense*, *pardus*, **spp. & subsp. n.**, Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 205–209.

Trochozonites **subgenn. n.** *Zonitotrochus*, *Teleozonites*; *T. plumaticostata*, *trifilaris ituriensis*; *T.* (*Z.*) *aillyi*, *medjensis* **spp. & subsp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 251–255.

Thysanophora, BERRY **38.**

Vitrea (*Paravitrea*) *pilsbryana* **sp. n.** Tennessee, CLAPP Nautilus **33** p. 9.

Vitrina **subgen. n.** *Calidivitrina*, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 281.—*V.*, BERRY **38.**

Xesta citrina **var. n.** *fragilis* Lorentz River New Guinea, SCHEPMAN Nova Guinea **13** p. 156.

Zonitoides nitidus var. *viridescens*, ALKINS **2.**—*Z.*, BERRY **38.**

EUDODONTIDAE.

Endodonta (*Charopa*), *tumida* W. Australia; *intermedia* N. Australia **spp. n.**, ODHNER K. Svensk. Vet. Ak. Handl. **52** pp. 72 85.

Flammulina cumulus **sp. n.** N. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 84.

Thalassia, ODHNER **297.**

HELICIDAE.

Acanthinula, STEENBERG **366.**

Archelix gebiletana & var. *minor* **sp. & var. n.** Morocco, PALLARY J. Conchyliol. Paris **64** p. 55.

Averellia (*Trichodiscina*) *hinkleyi* **sp. n.** Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. **1919** p. 217.

Camaena gudei **sp. n.** New Guinea, SCHEPMAN Nova Guinea **13** p. 161.—*C. forbesi* **sp. n.** Philippines, CLAPP Nautilus **33** p. 28.

Cantareus, CAZIOT **62.**

Chlorea, BARTSCH **29.**

Chloritis with *C. bilabiata* **sp. n.** N. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 85.—*C.* (*Sulcobasis*) *beatricis* **var. n.** *depressa* New Guinea, SCHEPMAN Nova Guinea **13** p. 165.

Ciliella, WATSON **401.**

Cochlicella acuta **var. n.** *obesa* Morocco, PALLARY J. Conchyliol. **64** p. 56.—*C.*, CAZIOT **62.**

Cochlostyla fulgetrum tayasana, nimbosa antiqua **subspp. n.** Philippines, BARTSCH Washington Proc. Biol. Soc. **32** pp. 16–17.—*C.* with *C. cinerosa* **subspp. n.** *balabacensis, higginsi, ulugana, tagbayugana, tidepolensis; C. palavanensis* **subspp. n.** *mantangulensis culionensis, C. weberi* **sp. n.** Philippines, BARTSCH Proc. Biol. Soc. Washington **32** pp. 177–181.—*C. lignaria aguinaldoi, macrostoma vizcayana, carinata lunai, luzonica makabengana, domingoi, schadenbergi ilongata* **subspp. n.** Philippines, BARTSCH Washington Nation. Mus. Proc. **55** pp. 301–304.

Epiphragmophora tudiculata colusaensis **subsp. n.** California, BARTSCH Nautilus **32** p. 126.—*E. tudiculata awania, californiensis miwoka* **subspp. n.** California, BARTSCH Washington Proc. Biol. Soc. **32** pp. 247–248.

Ereminella **sec. n.** *Xerophila*, PALLARY J. Conchyliol. **64** p. 66.

Gaetula olcesei **var. n.** *fichtalana* Morocco, PALLARY J. Conchyliol. **64** p. 56.

Hadra, ODHNER **297.**

Halolimnohelix intonsa, rutshuruensis, hirsuta, mukulensis, sericata, langi, zonata, mollitesta, bulla **spp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 37–46.

Haplohelix **gen. n.** type *H. anadenia* **sp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 49.

Helicella (*Heliomanes*) *virgata*, KEILIN **227.**—*H.*, CAZIOT **62.**

Helicinae, HESSE **201.**

Helicodonta obvoluta, BEESTON **35.**—*H. obvoluta*, KENNARD & WOODWARD **230.**—*H.*, CAZIOT **62.**—*H.*, HESSE **203.**

Helicogena, CAZIOT **62.**

Helix aspersa, MUSY **289.**—*H.*, WURTEMBERG **409.**—*? H. basaltica*, ? Cretaceous Portugal; *H.* (*Campylaea*) *iberica, H.* (*Gonostoma*) *mazerani* Tertiary Portugal **spp. n.**, ROMAN Com. Com. Surv. Geol. Portugal **12** pp. 72 80 91.—*H. jasonis, genezarethana*, HESSE **201.**—*H. mazzulli*, Galati-Mosella **126.**—*H. montivaga*, West. = *H. salmurina*, Serv, KENNARD & WOODWARD **228.**—*H. nemoralis* & *hortensis*, TRUEMAN **379.**—*H. nemoralis*, HAVILAND & PITT **193..**—*H. patula*, HUGGINS **210.**—*H. pisana*, LETACQ **256.**—*H. pomatia*, CASTELLI **58.**—*H. ponentina* Morel (=*occidentalis*, Récluz) = *H. lisbonensis*, Pfr., KENNARD & WOODWARD **228.**—*H. revelata* Mich., KENNARD & WOODWARD **228.**—*H. revelata*, Fér., KENNARD & WOODWARD **228.**—*H. revelata*, Britt. Auctt., KENNARD & WOODWARD **228.**—*H. subvirescens*, Bellamy = *H. ptilota*, Bourgt., KENNARD & WOODWARD **228.**—H. *terveri*, Mich., CAZIOT **62.**—*H. variabilis*, LETACQ **256.**—*H.* (*Macularia*) *vermiculata*, TAYLOR **374.**—*H.*, CAZIOT **62.**

†*Helix* (*Xerophila*) *phrygo-striata, H.* (*Galactochilus ?*) *phrygo-mysica* **spp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** pp. 132 180.

Hygromia, CAZIOT **62.**—*H. revelata*, GARDINER **166.**—*H. limbata*, WATSON **401.**

Levantina, HESSE **202.**

Mastigophallus **gen. n.** *Helicodontinae*, HESSE NachrBl. D. mal. Ges. **1918** pp. 103 109.

Micrarionta rixfordi **sp. n.** California, PILSBRY Nautilus **33** p. 53.

†*Microphyura*, ODHNER **297.**

Monacha, WATSON **401.**

Murellinae, HESSE **201.**

Oestophora, HESSE **203.**

Oreohelix cooperi apiarium **subsp. n.** Montana, BERRY Proc. Acad. Nat. Sci. Philad. **71** p. 198.

Panda, ODHNER **297.**

Papuina lorentzi & var. *roseolabiata, P. hellwigensis* **spp.** & **var. n.** New Guinea, SCHEPMAN Nova Guinea **13** pp. 167–168.—*P.*, ODHNER **297.**

Pedinogyra, ODHNER **297.**

Planispira (*Cristigibba*) *plagiocheila* var. *albolabiata*, *rhodomphala* varr. *fasciata*, *simplex*, *nigrolabiata*, *albolabiata* **varr. n.** New Guinea, SCHEPMAN Nova Guinea **13** pp. 162–164.

†*Planispira praehadra* **sp. n.** N. Australia Quaternary, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 97.

Polygyra plana **var. n.** *bahamensis* Bahamas, VANATTA Nautilus **33** pp. 72.

Praticolella campi **sp. n.** Texas, CLAPP & FERRISS Nautilus **32** p. 78.

Punctum, BERRY **38.**

Pyramidella, CAZIOT **62.**

Pyramidula rupestris, HESSE **204.**—*P.*, BERRY **38.**

Rhagada, ODHNER **297.**

†*Sagda ? tagica* **sp. n.** Tertiary Portugal, ROMAN Com. Com. Surv. Geol. Portugal **12** p. 79.

Sonorella montana, "Montana Peak, near the Montana mine, not far from Oro Blanco, and Bear canyon, further southeast, Pajarito range"; *hinkleyi*, "Cayetano Mountains"; *cayetanensis*, "Highest peaks of the Cayetano Mountains"; *tumacacori*, "Stations 209, 210, in a large gulch draining the north-eastern side of Tamacacori Peak"; *patagonica*, "Mt. Washington, Patagonia Mts."; *mustang*, "Mustang range"; *montezuma*, "Montezuma, Canyon, Huachuca Mts."; *elizabethae*, "Canillo Hills"; *cotis*, "Whetstone Range"; *insignis*, "Whetstone Range," **spp. n.**, PILSBRY & FERRISS Nautilus **33** pp. 19–21. [The above localities are as given by the authors.]

Soosia **gen. n.** *Helicodontinae*, HESSE NachrBl. D. mal. ges. **1918** p. 104.

Theba cantiana, DEAN **124.**—*T.*, CAZIOT **62.**

Thersites with *T. castanea* **sp. n.** N. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 87.

Tingitana **sec. n.** (*Helicidæ*) *T. tingitana* **varr. n.** *minor*, *slessica*, *lacunata*, *angulosa*, *pullata*, *punctulata*, *lacticolor*, *interrupta* Morocco, PALLARY J. Conchyliol. **64** pp. 51–53.

Trichia, WATSON **401.**

Trichocathaica **subgen. n.** (*Cathaica*), *C.* (*T.*) *lyonsæ* **sp. n.** China, GUDE Proc. Malac. Soc. **13** p. 119.

Vallonia, CAZIOT **62.**—*V.*, STEENBERG **366.**

Vicarihelix **gen. n.** type *V. orthotricha* **sp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 47.

Xanthomelon, ODHNER **297.**

Xerophila bogudiana & var. *cingula*, *znassenensis*, *verignoni* & var. *elevata*, *edrissiana* & varr. *minor*, *conica* & *meradana*, *X. mograbina* varr. *minor*, *major*, *depressa*, *obtecta*, *privatiana*, *X. brulardi* varr. *claveli*, *bergeroni*, *X. lecointrei*, *dzirana*, *guercifiana*, *psammophila*, *brunoti*, *X.* (*Trochula*) *fryatti* & var. *branesiana* **spp.** & **varr. n.** Morocco, PALLARY J. Conchyliol. **64** pp. 57–69.

BULIMIDAE, ORTHALICIDAE & BULIMULIDAE.

Amphidromus versicolor **subspp. n.** *secamensis*, *canabunganensis*; *A. maculiferus* **subsp. n.** *webbi* Philippines, BARTSCH Proc. Biol. Soc. Washington **32** pp. 182–183.

Bothriembryon, ODHNER **297.**

Bulimulus (*Nœsiotus*) *elæodes*, *hemærodes*, *perrus*, *cucullinus*, *albemarlensis*, *akamatus*, *adelphus*, *lycodus*, *alethorhytidus*, *cymatias*, *ochneri*, *jervisensis*, *rabidensis* **spp. n.** Galapagos Isds., DALL Proc. Cal. Acad. Sci. **2** pp. 376–381.—*B. nigromontanus* **subsp. n.** [*sic*] "Pina Blanca in the Pajarito Mountains." [Locality as given by the authors.] PILSBRY & FERRISS Nautilus **33** p. 20.—*B. brunoi*, LOBO **258.**

Drymaeus, PILSBRY **317.**

ENIDAE (*Buliminidae olim*), UROCOPTIDAE & PUPIDAE.

Brachypodella oropouchensis **sp. n.** Trinidad, SPENCE J. Conch. Leeds **16** pp. 42–43.—*B.*, PILSBRY **317.**

Bulimulus, CAZIOT **62.**

Cerastus bequaerti, *b. mokotoensis*, *b. mukulensis*, *lucasi* **spp.** & **subspp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 312–313.

Chondrina, PILSBRY **324.**

Clausilia (*Euphaedasa*) *steetzneri* **sp. n.** China, PILSBRY Nautilus **33** p. 53.—*C. bidentata*, BOYCOTT **50.**—*C. laminata*, PETERSEN **314a.**—*C.*, CAZIOT **62.**

Enneopupa, PILSBRY **324.**

Glandicula, PILSBRY **324.**

†*Hypselostoma australis* **sp. n.** N. Australia Quaternary, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 98.

Jaminia, CAZIOT **62.**

Nenia cooki **sp. n.** Peru, PILSBRY Nautilus **32** p. 80.

Pachnodus rutshuruensis, spiraxis, herbigradus **spp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 307–308.

Pseudhelix, PILSBRY **324.**

Pupa (*Vertigo*) *genesii, alpestris*, SCHLESCH **342.**

†*Pupa* (?) *phrygica* **sp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 182.

Rachis böhmi delicatus **subsp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 306.

Staurodon, PILSBRY **324.**

Vertigo with *V. alabamensis conecuhensis*, Alabama; *ovata diaboli*, Texas; *o. mariposa*, *V. berryi*, California; *gouldii paradoxa*, Maine; *g. cristata*, Canada; *andrusiana sanbernardinensis*, *V. sterkii*, California; *hannai*, Kansas; *coloradensis inserta*, Arizona; *modesta ultima*, Norton Sound; *m. insculpta* Arizona; *californica cupressicola*, California; **spp. & subspp. n.**; *Vertillaria* **subgen. n.** (Type *V. oscariana*), PILSBRY Man, Conch. **24** pp. 69–144: *V. bermudensis*, Bermuda; *eogea, hachijoensis*, Japan; *japonica coreana* Corea; *j. tosana*, Japan **spp. & subspp. n.**, PILSBRY Man. Conch. **24** pp. 145–221.—*Vertigo modesta microphusma, allyniana, a. xenos* **sp. & subspp. n.** California, BERRY Nautilus **33** pp. 48–52.—*Vertigo pygmaea*, WOODRUFFE-PEACOCK **408.**—*V. alpestris*, OLDHAM **299.**—*V.*, BERRY **38.**

STENOGYRIDAE & ACHATINELLIDAE.

Achatina pfeifferi eugrapta, sylvatica mut. *unicolor, weynsi* mut. *rosaxis, schweinfurthi rhodacme, s. r.* mut. *rhodostemma, s. r.* mut. *levior, osborni*, **sp. subspp. & mutt. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 67–77.—*A.*, PISLBRY **320.**

Achatium, PILSBRY **320.**

Achatinus, PILSBRY **320.**

Ampulla, PILSBRY **320.**

Archachatina, PILSBRY **320.**

Azeca tridens, BOYCOTT **51.**

Bocageia **subgen. n.** *Liobocageia*; B. (L.) *interioris, germaini, liocephala* **spp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 135 137 138.

Chersina, PILSBRY **320.**

Cochlitoma, PILSBRY **320.**

Crenea, CAZIOT **62.**

Curvella bathytoma, dautzenbergi, langi, chapini, thysvillensis **spp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 164–166.—*C. farquhari* **sp. n.** Cape Province, CONOLLY [CONNOLLY] Rec. Albany Mus. **3** p. 219.

Elasmias, ODHNER **297.**

Ferrussacia, CAZIOT **62.**

Geodes, PILSBRY **320.**

Homorus robinkempi **nom. n.** for *H. foveolatus* Preston 1912 *non* Preston 1909, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 122.—*H.* **subgen. n.** *Oreohomorus*, *H.* (*Subulona*) *langi, kwitschwiensis nigricans, alberti, amputatus, clarus, lionepion, ischnus*; *H.* (*O.*) *bequaerti, osborni* **spp. & subsp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 115–126.

Limicolaria walkeri, w. mut. *nudata, loeta medjensis, saturata masisiensis, s. capitellum, festiva* mut. *clara* **spp. subspp. & mut. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 94–102.—*L.*, GERMAIN **173.**

Limicolariopsis ruwensoriensis **sp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 89.

Nothapalus paucispira xanthophaes, ptychoraphe, sororcula, coelatus, c. debilis **spp. & subspp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 131–133.

Obeliscus obeliscus, SPENCE **363.**

Oncaea, PILSBRY **320.**

Opeas strigile with *O. janei*, Natal; *O. burnupi*, Cape Province; *O. annipacis*, Natal, **spp. n.**, CONNOLLY Proc Malac. Soc. **13** pp. 142–144.—*O. albaniense* **sp. n.** Cape Province, CONOLLY [CONNOLLY] Rec. Albany Mus. **3** p. 217.—*O. pumilum*, VANATTA **382.**

Orbitina, CAZIOT **62.**

Parachatina, PILSBRY **320.**

Pegea, CAZIOT **62.**

Perideriopsis fallsensis mut. *pronuba*, *f.* mut. *sponsa* **mutt. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 109.

Pintoa, PILSBRY **320.**

Pseudoglessula **subgenn. n.** *Dictyoglessula, Ischnoglessula; P. walikalensis, intermedia masisiensis; P.* (*Kempioconcha*) *leopoldvillensis, umbilicata; P.* (*I.*) *subfuscidula, famelica, cruda, gracillima* **spp. & subsp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 149–157.

Pseudopeas victoriae **sp. n.** Rhodesia, CONOLLY [CONNOLLY] Rec. Albany Mus. **3** p. 218.—*P. thysvillensis, curvelliforme* **spp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 160–162. —*P.*, ODHNER **297.**

Pseudosubulina martensiana **sp. n.** Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. **1919** p. 214.

Rumina, CAZIOT **62.**

Serpaea, PILSBRY **320.**

Spiraxis livingstonensis, longior **spp. n.** Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. **1919** p. 213.

Subulina glyptocephala, gratacapi, thysvillensis, pengensis, lowei, avakubiensis, bequaerti **spp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 139–143.—*S. gracillima* **sp. n.** Rhodesia, CONOLLY [CONNOLLY] Rec. Albany Mus. **3** p. 216.

Subuliniscus **gen. n.** *S. lucasi* **sp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** pp. 145 147.

Urcêus, PILSBRY **320.**

Vediantius, CAZIOT **62.**

SUCCINEIDAE, VERONICELLIDAE, VAGINULIDAE & ONCIDIIDAE.

Lithotis japonica, ANNANDALE & PRASHAD **10.**—*L.*, ANNANDALE **5.**

Oncia **gen. n.** type *Lithotis japonica*, Preston, ANNANDALE J. and Proc. As. Soc. Beng. **14** p. 460.

Onchidiidae, BRETNALL **54.**

Oncis cinerea **sp. n.** W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 73.

Oris, CAZIOT **62.**

Succinea congoensis, lessensis, bequaerti **spp. n.** Belgian Congo, PILSBRY Bul. Amer. Mus. Nat. Hist. **40** p. 301–302.—*S. panamensis* **sp. n.** Panama, PILSBRY Proc. Acad. Nat. Sci. Philad. **1919** p. 218.—*S.*, CAZIOT **62.**—*S.*, ODHNER **297.**

Vaginula, ODHNER **297.**

Vaginulus, PILSBRY **317.**

ELLOBIIDAE (*Auriculidae olim*), LIMNAEIDAE, PHYSIDAE, CHILINIDAE AND SIPHONARIIDAE.

Alexia kobelti, [**sp. n.**] Malta G., Valletta Arch. Melit. **1** p. 104.

Amphibola crenata, FARNIE **140.**

Ancylus, CAWSTON **59.**—*A.*, CAZIOT **62.**—*A.*, ODHNER **297.**

Auricula translucens **sp. n.** Brit. India, ANNANDALE & PRASHAD Rec. Ind. Mus. Calcutta **16** p. 256.

Bullinidae **Fam. n.**, GERMAIN Bul. Mus. Paris **1919** p. 121.

†*Bullinus*, CHAPMAN **66.**

Camptoceras hirasei **sp. n.** Japan, WALKER Ann. Arbor Mich. Occ. Pprs. Mus. Zool. **64** p. 1.—*C.*, ANNANDALE & PRASHAD **10.**

Choanomphalus, ANNANDALE **5.**

Gyraulus, ANNANDALE & PRASHAD **14.**

Isidora, CAWSTON **59.**

Isodora with *I. gibbosa* **var. n.** *brevispira* N. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** pp. 74 76.

Leuconia bidentata, KENNARD & WOODWARD **229.**

Limnaea [*vide etiam Limnea et Lymnea*] with *L. iranica*, Persia; *L. gedrosiana* & var. *rectilabrum* Brit. India **spp.** & **var. n.**, ANNANDALE & PRASHAD Rec. Ind. Mus. Calcutta **16** pp. 43 48 49.—*L.* with *L. acuminata* **var. n.** *nana* Brit. India, ANNANDALE Rec. Ind. Mus. Calcutta **16** p. 141.—*L.* with *L. cor* **sp. n.** Mesopotamia, ANNANDALE & PRASHAD Rec. Ind. Mus. **18** p. 111; —*Limnaea*, ANNANDALE **5.**—*L. glabra*, ALKINS **1.**—*L. gedrosiana*, KEMP in ANNANDALE & PRASHAD **14.**—*L.*, BRUMFIEL **55.**—*L.*, CAWSTON **59.**—*Limnaea viatrix*, DOELLO-JURADO **130.** —*L. stagnalis*, GATENBY **168.**—*L.*, GERMAIN **170** & **172.**—*L. pereger*, HARGREAVES **189.**—*L. p.*, HUTTON **212.**—*L.*, STELFOX **367.**

†*Limnaea phrygopalustris, phrygoovata, aegaea, pergamenica* **spp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** pp. 129 177 191.

Limnea [*vide etiam Limnaea et Lymnea*] *truncatula*, MUSHAM **288.**—*L. stagnalis*, ŠECÉROV **345.**—*L. s.*, SHECEROVA **347.**

Lymnaeidae, BAKER **23.**

Lymnea [*vide etiam Limnaea et Limnea*], CAZIOT **62.**

Physa solidissima **sp. n.** Mexico, PILSBRY Proc. Acad. Nat. Sci. Philad. **1919** p. 219.—*P. oneida* **sp. n.** New York State, BAKER Nautilus **33** p. 11.—*P.*, BRUMFIEL **55.**—*P. fontinalis*, MUSHAM **288.**—*P.*, VAN HYNING **386.**

Physopsis, CAWSTON **59.**—*P.*, GERMAIN **170.**

Phytia myosotis, KENNARD & WOODWARD **229.**

Phyza, CAZIOT **62.**

Planorbis carinatus, ALKINS **3.**—*P.*, ANNANDALE **5** & **7.**—*P.*, CAWSTON **59.**—*P.*, CAZIOT **62.**—*P. corneus*, HALBERT **186.**—*P.*, ODHNER **297.**—*P. corneus*, WEBSTER **402.**—*P.*, WHITTAKER **403.**—*P. dilatatus buchanensis*, WINGLOW **407.**

†*Planorbis parvus* var. *urbanensis, P. altissimus* **sp.** & **var. n.** Quaternary U.S.A., BAKER Nautilus **32** pp. 94 95.—*P. subverticillus* **sp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 176.

Planorbula, PILSBRY **317.**

Saraphia, CAZIOT **62.**

Segmentina, ANNANDALE & PRASHAD **14.**

†*Siphonaria dubia* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. i figs. 27–29.

Scaphopoda.

†*Cadulus denticulus-tigris* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 324.

†*Dentalium glaucoterrarum* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 323.—*D.* (*Entaliopsis*) *magnum, D.* (*Fustiaria*) *montense, D.* (*Laevidentalium*) *hannonicum* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. i figs. 1–3 10–11 18–19.—*D.* (*Entalis*) *davasense* **sp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 55.

Pelecypoda or Lamellibranchia.

GENERAL.

†*Lamellibranchia*, FOURTAU **156.**

TETRABRANCHIA.

OSTRACEA.

Anomia, ODHNER **297.**

†*Anomia*, MARIANI **259.**

†*Ctenostreon nitidum*, **sp. n.** Jura, KRENKEL Palaeont. Stuttgart **61** p. 295.

†*Exogyra sacyi* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 137.—*E. popilanica* **sp. n.** Jura, KRENKEL Palaeont. Stuttgart **61** p. 303.

†*Gryphaea dilatata* **var. n.** *popilanica* Jura, KRENKEL Palaeont. Stuttgart **61** p. 301.

Ostrea, HEDLEY **194.**—*O.*, ODHNER **297.**

†*Ostrea titan corrugata* **var. n.** Tertiary U.S.A., NOMLAND Berkley Cal. Pub. Bul. **10** p. 306.—*O. latesinuosa* **sp. n.** Jura, SCHNEID Jena Geol. Pal. Abh. **13** p. 107.—*O. gilbertharrisi* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 246.—*O. gingensis* **var. n.** *africana* Tertiary S. W. Africa, BÖHM Beitr. Geol. Deutsch. Schutzg. **5** p. 61.—*O. vicksburgensis* **var. n.** *ludoviciana* Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 16.—*O.*, SHIMER **350.**—*O.*, DAINELLI **109.**—*O.*, MARIANI **259.**—*O.* (*Exogyra*), DOLLFUS **131.**

PECTINACEA.

Chlamis varia **var. n.** *livida* Mediterranean, MONTEROSATO Boll. Soc. Zool. Ital **3** p. 2.

†*Chlamys bezieri*, *C.* (*Æquipecten*) *gregoriensis* **spp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** pp. 139–140.

†*Hinnites*, DAINELLI **109.**

Lima hyans, BOUTAN **49.**—*L.*, LAMY **251.**—*L.*, ODHNER **297.**

†*Lima huttoni*, H. Wds. becomes *L.* (*Limatula*) *woodsi*, Sut. Wellington N. Zeal. J. Sci. Tech. **2** p. 58.—*L. waipipiensis* **sp. n.** Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. **51** p. 256.—*L.*, MARIANI **259.**

Pecten with *P. difformis* **sp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 15.—*Pecten tenuicostatus*, HALKETT **187.**—*P.*, MESTAYER **274.**—*P.*, MORSE **284.**

†*Pecten crassicardo biformatis* **var. n.** Tertiary U.S.A., NOMLAND Berkely Cal. Pub. Bul. **10** p. 307.—*P. thompsoni, cercadica, caimitica, hatoviejonis* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 252–253.—*P. sylvestrei-sacyi* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 138.—*P.* with *P. curdo-sarmatica* **var. n.** Miocene, DAUS Stuttgart N. Jahrb. Min. Geol. Pal. **38** p. 488.—*P.* (*wantubbeanus* var. ?) *willcoxi* **var. n.**; *cainei*, *P.* (*clarkeanus* ? var.) *burlesonensis* **var. n.**; *P. cawcawensis* **sp. n.**; *scintillatus* **var. n.** *corneoides* Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** pp. 23–28.—*P. trentensis* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **8** p. 15.—*P.* with *P.* (*Amussium*) *præobliteratus* **sp. n.** Oligocene France, DOLLFUS Paris Bul. soc. géol. **17** p. 97.—*P.* (*Propeamusium*) *levis* **sp. n.** Tertiary U.S.A., MOODY Berkely Cal. Pub. Bul. **10** p. 56.—*P.*, SCHÄFER **339.**—*P.*, SHIMER **350.**

Plicatula, LAMY **247.**—*P.*, ODHNER **297.**

Spondylus, LAMY **245.**—*S.*, ODHNER **297.**

MYTILACEA.

Avicula, ODHNER **297.**

†*Aucella sokolowi*, *popilanica* **spp. n.** Jura, KRENKEL Palaeont. Stuttgart **61** pp. 291–292.

†*Botula hispaniolae* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 257.

†*Brachydontes athabaskaensis* **sp. n.** Cretaceous Canada, MCLEARN Mus. Bul. Dept. Mines Canada, **29** p. 12.

†*Cassianella* with *C. azzarolae*, *barnensis* **spp. n.** Rhaetic Lombardy, MARIANI Mem. Soc. ital. sc. nat. **58** pp. 120–121.

†*Congeria* (?) *kairanderensis* **sp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol Ges. **70** p. 126.

Crenella, LAMY **248.**

†*Dreissensia* (?) *phrygica*, *lycophila*, *hierapolitana* **spp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** pp. 124–125 127.

†*Gervilleia*, SCHÄFER **339.**

†*Inoceramus dowlingi* **sp. n.** Cretaceous Canada, MCLEARN Mus. Bul. Dept. Mines Canada **29** p. 11.—*I. monsensis* **sp. n.** Cretaceous France, REPELIN in GUÉBHARD, LAMBERT & REPELIN Notes Provençales **6** p. 3.

Lithodomus, ODHNER **297.**

†*Lithodomus*, COUFFON **100.**

Lithophaga with *L. robusta*, *lima*, *pulchra* **spp. n.** Red Sea, LAMY Bul. Mus. Paris **1919** pp. 252–257 344–350.—*L.*, CALMAN **57.**

Malleus, ODHNER **297.**

Modiola, LAMY **248.**—*M.*, MORSE **284.**—*M.*, ODHNER **297.**

†*Modiola visgnolae* **sp. n.** Rhaetic Lombardy, MARIANI Mem. Soc. ital sc. nat. **58** p. 123.

Modiolaria, LAMY **248.**—*M.*, MORSE **284.**—*M.*, ODHNER **297.**

†*Modiolus cercadicus, maonis* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 256.—*M. cawcawensis* **sp. n.** *Mauricia* **subgen. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** pp. 31–32.—*M.*, SHIMER **350.**

Mytilus edulis, MELLEN **268.**—*M.*, LAMY **248.**—*M.*, MORSE **284.**—*M.*, ODHNER **297.**

†*Mytilus*, SCHÄFER **339.**—*M.*, SHIMER **350.**—*M.*, MARIANI **259.**

Perna, ODHNER **297.**

Pinna, ODHNER **297.**

†*Pinna curvimarginata* **sp. n.** Cretaceous Canada, MCLEARN Mus. Bul. Dept. Mines Canada **29** p. 10.—*P. gravida, cawcawensis* **spp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** pp. 30–31.—*P. quadrata* **sp. n.** Jura, SCHNEID Jena Geol. Pal. Abh. **13** p. 106.—*P. bicuneata* **sp. n.** Tertiary U.S.A., NOMLAND Berkely Cal. Pub. Bul. **10** p. 308.

Pteria, ODHNER **297.**

†*Pterinea*, ETHERIDGE **138.**—*P.*, WILLIAMS **405.**

Septifer, LAMY **248.**—*S.*, ODHNER **297.**

†*Septifer margaritana* **sp. n.** Tertiary U.S.A., NOMLAND Berkely Cal. Pub. Bul. **10** p. 308.

Stempelleria magellanica **nom. n.** for *Avicula m.*, CLASING Mitt. Zool. Inst. Westfälisch. Wil.-Univ. Münster i/W. **1** p. 22.

ARCACEA.

Arca, LAMY **243.**—*A.*, MORSE **284.**—*A.*, ODHNER **297.**

†*Arca lomasdesamba, yaquensis* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 328.—*A. philippsoni* **sp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 32.—*A.* (*cuculloides* ?) **var. n.** *ludoviciana* Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 54.—*A.* (*Noëtia*) *reuningi, koerti* **spp. n.** Tertiary S.W Africa, BÖHM Beitr. Geol. Deutsch. Schutzg. **5** pp. 63 65.—*A.*, COUFFON **100.**

†*Barbatia* (*Calloarca*) *submarylandica* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 329.

†*Buchiola* with *B. dilata* **sp. n.** Devonian Canada, KINDLE Mus. Bul. Dept. Mines Canada Geol. Ser. No. **36** **29** pp. 5–6.

Cucullea, LAMY **243.**

†*Dicranodonta dowlingi* **sp. n.** Cretaceous Canada, MCLEARN Mus. Bul. Dept. Mines Canada **29** p. 9.

Glycimeris, MORSE **284.**

†*Glycymeris lisbonensis, sabinensis* **spp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** pp. 48–51.

Leda lomaensis **sp. n.** California, DALL Washington Proc. Biol. Soc. **32** p. 249.—*L.*, MORSE **284.**

†*Leda cœlatoides, trumani, magnopsis pistorupes, kittensis, crassiparva, ozarkola, wautubbeana* **spp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** pp. 58–69.—*L. coelatella* **sp. n.** Eocene U.S.A., VAN WINKLE Bul. Amer. Pal. **8** 1919 p. 6.—*L.*, COUFFON **100.**—*L.*, SCHÄFER **339.**

†*Limopsis hampdenensis* **sp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 233.

†*Macrodon*, MARIANI **259.**

†*Nemodon mcconnelli* **sp. n.** Cretaceous Canada, MCLEARN Mus. Bul. Dept. Mines Canada **29** p. 10.

Nucula, MORSE **284.**

†*Nucula dowlingi* **sp. n.** Cretaceous Canada, MCLEARN Mus. Bul. Dept. Mines Canada **29** p. 9.—*N. ripae* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 74.—*N.*, COUFFON **100.**—*N.*, MARIANI **259.**

†*Nuculites* (*Cleidophorus*), WILLIAMS **405.**

Pectunculus with *P. setiger* **sp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 22.

†*Pectunculus togoënsis* **sp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch. Schutzg. **12** p. 21.

†*Sarepta solenelloides, tenuis* **spp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst. **51** p. 233.

†*Scapharca henekeni, golfoyaquensis, cercadica, margaretæ, guayubinica, riogurabonica, losquemadica, caimitœa cibaoica, cor-cupidonis, hispaniolana, riocanensis, arthurpennelli, S.* (*Cunearca*)

willardausteni **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 331–334 336–337 339–340 341–343.

Sheldonella **sec. n.** (*Noetia*); *N.* (*S.*) *maoica* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 330.

Trigonia with *T. uniophora* var. *crebrisculpta* **var. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 23.

†*Trigonia albertaensis* **sp. n.** Cretaceous Canada, MCLEARN Mus. Bul. Dept. Mines Canada **29** p. 11.—*T. areolata, densicostata* **spp. n.** Tertiary N. Zealand, MARSHALL Trans. and Proc. N.Z. Inst **51** p. 234.—*T. zonata* **var. n.** *grewingki* Jura, KRENKEL Palaeont. Stuttgart **61** p. 316.—*T.*, COUFFON **100.**

†*Trinacria pulchra* var. *sabinica, T. ovalis* **var. & sp. n.** *T.* (*Pachecoa*) *cainei* **subgen. & sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** pp. 41–46.

Yoldia, MORSE **284.**

SUBMYTILACEA.

Alasmidonta (*Decurambis*) *marginata susquehannæ*, Ortman **Descr.** Pennsylvania, ORTMANN Mem. Carnegie Mus. **8** p. 187.

Anodonta, ANNANDALE **5.**

†*Anodonta*, SCHÄFER **339.**

Anodontinæ, ORTMANN **304.**

Anodontites, HAAS **185.**

†*Anoplophora pralingeri* **sp. n.** Rhaetic Lombardy, MARIANI Mem. Soc. ital sc. nat. **58** p. 128.

Astarte, MORSE **284.**

†*Astarte mauriana, trinidadensis* **spp. n.** Eocene Trinidad, VAN WINKLE Bul. Amer. Pal. **8** pp. 19–20.—*A.* with *A. apiculata* **sp. n.** Tertiary England, BELL Naturalist London **1919** p. 58.—*A. triangulatoides, neuseana* **spp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** pp. 91 92.— *A.*, COUFFON **100.**

Astartidæ, LAMY **252.**

Balwantia **gen. n.** (*Unionidæ*), PRASHAD Rec. Ind. Mus. **16** p. 290.

†*Cardinia antero-truncata* **sp. n.** Rhaetic Lombardy, MARIANI Mem. Soc. ital. sc. nat. **58** p. 128.—*C.*, ETHERIDGE **138.**

Cardita, MORSE **284.**—*C.*, ODHNER **297.**

†*Cardita saaretensis* **sp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 74.—*C. koerti, togoensis, tabligboënsis* **spp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch. Schutzg. **12** pp. 24–29.

Castalina, HAAS **185.**

Crassatella jousseaumei **sp. n.** Red Sea, LAMY Bul. Mus. Paris **24** p. 514.

†*Crassatella*, DAINELLI **109.**

†*Crassatellites entawcolens* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **8** p. 14.—*C. negreetensis* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 97.—*C. subobesus* **sp. n.** Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. **51** p. 257.

Cristaria, ANANNDALE **5.**

†*Cuna astartoides* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 94.

Diplodon with *D. hidalgoi* **sp. n.** Uruguay, HAAS Madrid Trab. Mus. Nac. Ci. Nat. Ser. Zool. **25 1916** pp. 11–23 47–53.—*D.*, ODHNER **297.**

Eolymnium **subgen. n.** Type *Unio terminalis*, Brgt., PRASHAD Rec. Ind. Mus. **16** p. 410.

Hyria, HAAS **185.**

Hyriopsis, ANNANDALE **5.**

Lamellidens with *L. marginalis rhadinœus* **subsp. n.** Brit. India, ANNANDALE & PRASHAD Rec. Ind. Mus Calcutta **16** p. 59.—*L.*, ANNANDALE **7.**—*L.*, PRASHAD **326.**

Lampsilinæ, ORTMANN **304.**

Lampsilis fasciata, FRIERSON **159.**—*L. modioliformis*, WALKER **399.**

Lanceolaria, ANNANDALE **5.**

Margaritanidæ, ORTMANN **304.**

Margaritanopsis with *M. woodthorpi* **sp. n.** Shan States, GODWIN-AUSTEN Rec. Ind. Mus. **16** pp. 203–204.

†*Modiolopsis kelsoensis* **sp. n.** Silurian Canada, WILLIAMS Canada Dept. Mines Geol. Surv. **111** p. 123.

Monocondylaea, HAAS **185.**

Monodontina, PRASHAD **327.**

Mycetepoda with *M. bolivari* **sp. n.** Ecuador, HAAS Madrid Trab. Mus. Nac. Ci. Nat. Ser. Zool. **25** 1916 pp. 36 57–58.

†*Myoconcha*, COUFFON **100.**—*M.* REPOSSI **330.**

†*Myophoria* with *M. valmadrerae* **sp. n.** Rhaetic Lombardy, MARIANI Mem. Soc. ital. sc. nat. **58** p. 123.—*M.*, REPOSSI **330.**—*M.*, SCHÄFER **339.**

Nodularia (*Cœlatura*) *cariei* **sp. n.** Reunion, GERMAIN Bul. Mus. Paris **1919** p. 122.—*N.*, ANANNDALE **5.**

†*Pachytypus*, COUFFON **100.**

Parreyssia with *P. cylindrica* **sp. n.** Brit. India, ANNANDALE Rec. Ind. Mus. Calcutta **16** p. 150.—*P.*, PRASHAD **326.**

Physunio, PRASHAD **326.**

Pletholophus, ANNANDALE **5.**

†*Pleurophopsis* **gen. n.** [? *Unionidae*], *P. unioides* & var. *fernandensis* **sp.** & **var. n.** Eocene Trinidad, VAN WINKLE Bul. Amer. Pal. **8** pp. 23–25.

Pleurobema clava, WINSLOW **407.**

†*Pleuromeris aldrichi* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 95.

Prisodon, HAAS **185.**

Pseudodon, PRASHAD **326.**

Rhombunio, PRASHAD **327.**

Solenaia, ANNANDALE in GODWIN-AUSTEN **9.**

Tetraplodon, HAAS **185.**

†*Trigonopis*, COUFFON **100.**

Turtonia, MORSE **284.**

Unio, CAWSTON **59.**—*U. tenerus*, WALKER **399.**

†*Unio dowlingi* **sp. n.** Cretaceous Canada, MCLEARN Mus. Bul. Dept. Mines Canada **29** p. 11.

Unionidae, WALKER **400.**—*U.*, ORTMANN **304.**

Venericardia nodulosa **sp. n.** California, DALL Washington Proc. Biol. Soc. **32** p. 249.

†*Venericardia rotunda* var. *flabellum*, *V. natchitoches*, *V.* (*Pleuromeris*) *tortidens* **var.** & **spp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** pp. 80 84 87.—*Venericardia islahispaniolae* [? **sp. n.**], *cerrogordensis* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 362–363.

ERYCINACEA.

†*Bornia isosceles*, *perdita* **spp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 109.

†*Erycina*, CHAPMAN **66.**

Kellya, ODHNER **297.**

†*Montacuta cercadica*, *maoica*, *hispaniola* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 372–373.

CARDIACEA.

Cardium corbis, EDMONDSON **136.**—*C.*, MORSE **284.**—*C.*, ODHNER **297.**

†*Cardium* with *C. pesurae* **sp. n.** Rhaetic Lombardy, MARIANI Mem. Soc. ital. sc. nat. **58** pp. 131–132.—*C. luschani* **sp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** p. 75.—*C. onachitense* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 132.—*C. zecki* **sp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch. Schutzg. **12** p. 22.—*C.* (*Trachycardium*) *linguatigris*, *tintinnabularum*, *cinderellae C.* (*Trigoniocardia*) *haitense* var. *cercadicum C.* (*T.*) *sambaicum* **spp.** & **var. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 373–376.—*C.*, SCHÄFER **339.**

Liocardium, MORSE **284.**

†*Protocerdia gurabica*, *islahispaniolae* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 377–378.—*P. salrivalis* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 134.

†*Pseudocardita* **subgen. n.** with *Cardium* (*P.*) *bukowskii*, *phrygicum*, *laodicaeense*, *philippsoni*, *denislüense*, *chamaeforme* **spp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** pp. 136 139–145.

Tridacna, ODHNER **297.**

CHAMACEA.

Chama, LAMY **244**.—*C.*, ODHNER **297**.

†*Chama caimitica, congregatoides, riocamica* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 363–364.

Chamidae, ODHNER **297**.

†*Echinochama antiquata* **var. n.** *yaquensis* Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 361.

†*Hippurites*, CISNEROS, JIMÉNEZ DE **73**.

Pseudochama, ODHNER **297**.

†*Rudistes*, PARONA **310**.

CONCHACEA.

†*Amiantis communis* **sp. n.** Tertiary U.S.A., NOMLAND Berkely Cal. Pub. Bul. **10** p. 305.

†*Anisocardia*, COUFFON **100**.

Artemis, ODHNER **297**.

Asaphis, ODHNER **297**.

Batissa albertisii **var. n.** *crassior* New Guinea, SCHEPMAN Nova Guinea **13** p. 185.

†*Callista sacyi* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 147.

Chione with *C. laticostata* **sp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 26.

†*Chione auriculata* **sp. n.** Tertiary N. Zealand, BARTRUM Trans. and Proc. N.Z. Inst. **51** p. 97.—*C. semiplicata* **sp. n.** Tertiary U.S.A. NOMLAND Berkely Cal. Pub. Bul. **10** p. 307.

Circe plana **sp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 27.

Clementia, ODHNER **297**.

Corbicula, ANNANDALE **5**.—*C.*, ANNANDALE & PRASHAD **14**.—*C.*, CAWSTON **59**.

Cryptodon, MORSE **284**.

Cryptogramma, ODHNER **297**.

Cyclas, CAZIOT **62**.

†*Cypricardia*, ETHERIDGE **138**.—*C.*, MARIANI **259**.

Cyprina, MORSE **284**.

†*Cyprina*, COUFFON **100**.

Cyrena kochi, subtriangula **spp. n.** N. Guinea, SCHEPMAN Nova Guinea **13** pp. 184–185.—*C.*, ODHNER, **297**.

†*Cyrena*, DAINELLI **109**.

Cyrenoidea guatemalensis **sp. n.** Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. **1919** p. 221.

Cytherea, MORSE **284**.—*C.*, ODHNER **297**.

†*Cytherea adabionensis* **sp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch. Schutzg. **12** p. 30.

†*Diplodonta corbiscula* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 130.

Donax mediamericana **sp. n.** Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. **1919** p. 222.

†*Donax cuneola* **sp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 49.

†*Ensis*, SHIMER **350**.

Eupera yucatanensis minima **subsp. n.** Mexico, PILSBRY Proc. Acad. Nat. Sci. Philad. **1919** p. 222.

Gemma, MORSE **284**.

†*Gemma sancti-mauricensis* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 152.—*G.*, SHIMER **350**.

†*Gouldia*, COUFFON **100**.

†*Isocardia*, COUFFON **100**.

Machaera, MORSE **284**.

†*Macrocallista densa* **sp. n.** Tertiary U.S.A., MOODY Berkely Cal Pub. Bul. **10** p. 58.—*M.* ? *veatchi* **sp. n.** Eocene Trinidad, VAN WINKLE Bul. Amer. Pal. **8** p. 21.

†*Marcia pariaensis* **sp. n.** Eocene Trinidad, VAN WINKLE Bul. Amer. Pal. **8** p. 20.—*M.* (*Similivenus*) *tenuisulcata* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 148.

†*Meiocardia carolinae* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **8** p. 14.

Meretrix, HORNELL **208**.

†*Meretrix sylvaerupis, neusensis, perovata* var. *lisbonensis, macbeani, trigoniata* varr. *winnensis, bastropensis* **spp. & varr. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** pp. 136–137 140 147.—*M. angelinae* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **8** p. 17.

Naranis, ODHNER **297.**

Paphia, ODHNER **297.**

Petricola pholadiformis, CALMAN 57.—*P.*, MORSE **284.**

†*Petricola claibornensis* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 153.—*P. caimitica*, *P.* (*Rupelaria*) *riocanensis* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 383–384.

Pisidium lilljeborgii, JONES & KENNARD **223.**—*P. parvulum*, STELFOX **368.**—*P.*, ANNANDALE **5.**—*P.*, BERRY **38.**

†*Pisidium crassissimum, dagardiense* **spp. n.** Neogen, OPPENHEIM Berlin Zs. D. geol. Ges. **70** pp. 146 183.

Psammobia, ODHNER **297.**

†*Psammosolen sancti-dominici* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 392.

†*Sanguineolaria* (*Psammotella*) *smithwoodwardi* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 395.

Solen, MORSE **284.**

Sphaeriidae, LATCHFORD **254.**

Sphaerium, ANNANDALE **5.**

†*Tancredia*, CAUFFON **100.**

Tapes philippinarum okupi **subsp. n.** Hawaii, BRYAN Nautilus **32** p. 125.—*T.*, ODHNER **297.**

Thyasira bisecta, DALL **117.**

†*Unicardium*, COUFFON **100.**

Venerupis, ODHNER **297.**

Venus, MORSE **284.**

†*Venus*, SHIMER **350.**

MYACEA.

†*Anapteris* **subgen. n.** (*Corbula*); *A. regalis* **sp. n.** Eocene U.S.A., VAN WINKLE Bul. Amer. Pal. **8** p. 7.

Ceronia, MORSE **284.**

Corbula, ODHNER **297.**

†*Corbula togoënsis, dactylus* **sp. n.** Eocene Togo, OPPENHEIM B. geol. Deutsch. Schutzg. **12** pp. 34–35.—*C. tenuis* **sp. n.** Tertiary U.S.A., MOODY Berkely Cal. Pub. Bul. **10** p. 59.—*C.* (*Cuneocorbula*) *cercadica, caimitica* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 396–397.—*C.*, MARIANI **259.**

Gastrochaena dubia, CALMAN **57.**

Mactra, MORSE **284.**—*M.*, ODHNER **297.**

†*Mactra trampasensis* **sp. n.** Tertiary U.S.A., PACKARD Berkely Univ. Cal. Pub. Bull. Dept. Geol. **9** p. 282.—*M.* (*Barymactra*) *dernburgi* **sp. n.** Tertiary S.W. Africa, BÖHM Beitr. Geol. Deutsch. Schutzg. **5** p. 66.

†*Mulinia pabloensis* **sp. n.** Tertiary U.S.A., PACKARD Berkely Univ. Cal. Pub. Bull. Dept. Geol. **9** p. 309.—*M.*, GARDNER & ALDRICH **167.**—*M.*, SHIMER **350.**

Mya, MORSE **284.**

†*Mya*, SHIMER **350.**

†*Raëta tenuiplicata* **sp. n.** Tertiary N. Zealand, BARTRUM Trans. and Proc. N.Z. Inst. **51** p. 97.

†*Raetomya* **gen. n.** Type *Lovellia schweinfurthi* M.-E. Eocene Egypt, NEWTON Proc. Malac. Soc. **13** pp. 79–84.

Saxicava rugosa, CALMAN **57.**—*S.*, MORSE **284.**—*S.*, ODHNER **297.**

Solecurtus, MORSE **284.**

†*Solecurtus*, ETHERIDGE **138.**

Sphenia globula **sp. n.** N. Pacific, DALL Proc. U.S. Nation. Mus. **56** p. 371.

†*Spisula aequilateralis gilberti* **var. n.** Tertiary N. Zealand, BARTRUM Trans. and Proc. N.Z. Inst. **51** p. 99.—*S. decisa* **var. n.** *palmaris* Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 176.—*S. mercedensis*, *S. albaria* var. *ramonensis, selbyensis, merriami, acutirostrata, brevirostrata, chicoensis, tejonensis* **spp.** & **var. n.** Tertiary U.S.A., PACKARD Berkely Univ. Cal. Pub. Bull. Dept. Geol. **9** pp. 286 291–292 294–296 300 303.

†*Taeniodon*, SCHÄFER **339.**

ADESMACEA.

Calobates, CALMAN **57.**

Martesia, CALMAN **57.**

†*Martesia sancti-dominici, sancti-pauli* **spp. n.** Tertiary S. Domingo, MAURY Bull. Amer. Pal. **5** p. 398.

Nausitoa, CALMAN **57.**

Pholadidae, CALMAN **57.**

Pholas, CALMAN **57.**—*P.*, MORSE **284.**

Teredinidae, CALMAN **57.**

Teredo norvegica fig., CALMAN Brit. Mus. (Nat. Hist.) Econ. Ser. **10** p. 9.—*T.*, BARROWS **27.**—*T. navalis*, KINDLE **236.**—*T.*, MORSE **284.**

†*Teredo*, DAINELLI **109.**

Xylophaga, CALMAN **57.**

Xylotrya, BARROWS **27.**—*X.*, CALMAN **57.**

Zirfaea, MORSE **284.**

DIBRANCHIA.

LUCINACEA.

†*Lucina gaggensis* **sp. n.** Rhaetic Lombardy, MARIANI Mem. Soc. ital. sc. nat. **58** p. 130.

†*Lucinida levifoliata* **sp. n.** Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. **51** p. 257.

†*Myrtaea lomasdesamba* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 367.

Phacoides, ODHNER **297.**

†*Phacoides* (*Lucinisca*) *hispaniolana, cercadica, P.* (*Miltha*) *smithwoodwardi, riocanensis* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 365–369.

TELLINACEA.

Cumingia, MORSE **284.**—*C.*, RICHARDS & GOOD, **333.**

†*Cumingia ? Keittensis* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 173.

Macoma, MORSE **284.**

†*Macoma carolinensis* **sp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad, **71** p. 50.—*M. danai* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** p. 169.—*M.* (*Psammacoma*) *yaquensis, M.* (*Cymatoica*) *hispaniolae* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 391.—*M.*, SHIMER **350.**

†*Metis ? eutawensis* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **8** p. 14.

†*Semele linosa* var. *claibornensis, S. australina* **var.** & **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** pp. 171–172.—*S. claytoni* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 391.

†*Strigilla caimitica* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 389.—*S. entykta* **sp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** p. 47.

Tellina, MORSE **284.**—*T.*, ODHNER **297.**

†*Tellina dowlingi* **sp. n.** Cretaceous Canada, MCLEARN Mus. Bul. Dept. Mines Canada **29** p. 12.—*T. lüderitzi, T.* (*Peronaea*) *oppenheimi* **spp. n.** Tertiary S.W.Africa, BÖHM Beitr. Geol. Deutsch. Schutzg. **5** pp. 68 70.—*T. trumani* var. *australina, cynoglossula, T. leana* varr. *yeguana, sabotica praegravis, T. cherokeensis* **spp.** & **varr. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **6** pp. 159–161 164–165.—*T. riocanensis islahispaniolae, waylandvaughani, maoica, cibaoica, T.* (*Merisca*) *sancti-dominici, T.* (*Scissula*) *cercadica* **spp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** pp. 384–388.—*T.* (*Moerella*) *bezieri* **sp. n.** Oligocene France, COSSMANN J. Conchyliol. **64** p. 150.

ANATINACEA.

Anatina, MORSE **284.**

†*Anatina* with *A. galavesae, tremezzinae* **spp. n.** Rhaetic Lombardy, MARIANI Mem. Soc. ital. sc. nat. **58** pp. 133–134.

Chamostrea plicifera **sp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 34.

†*Cuspidaria islahispaniolae* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 360.

Lyonsia, MORSE **284.**

Pandora, MORSE **284.**

†*Pandora* (*Clidiophora*) *prodromos, tuomeyi* **spp. n.** Miocene U.S.A., GARDNER & ALDRICH Proc. Acad. Nat. Sci. Philad. **71** pp. 44–45.

†*Paracardium*, KINDLE **235.**

†*Pecchiolia delliana* **sp. n.** Eocene U.S.A., HARRIS Bul. Amer. Pal. **8** p. 16.

†*Periploma clarki* **sp. n.** Tertiary U.S.A., NOMLAND Berkely Cal. Pub. Bul. **10** p. 307.

†*Pholadomya*, DOLLFUS **131.**—*P.*, MARIANI **259.**

†*Pleuromya baltica* **sp. n.** Jura, KRENKEL Palaeont. Stuttgart **61** p. 332.

Solemya, MORSE **284.**

Thracia, MORSE **284.**

†*Thracia vegrandis* **sp. n.** Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. **51** p. 258.

INCERTAE SEDIS.

Ephippodonta granulifera **sp. n.** N.W. Australia, ODHNER K. Svensk. Vet. Ak. Handl. **52** p. 25.

†*Macrodus*, REPOSSI **330.**

Margaritifera, CLASING **82.**

†*Ontaria*, KINDLE **235.**

†*Paraptax*, KINDLE **235.**

†*Pitaria cercadica* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 280.

Williamia galapagana **sp. n.** Galapagos Isds., DALL Proc. Cal. Acad. Sci. **2** p. 382.

Cephalopoda.

GENERAL.

Cephalopoda, GALIANO **163.**

†*Cephalopoda*, LANG **253.**—*C.*, SPATH **358.**—*C.*, FOSSA-MANCINI **154.**

CEPHALOPODA.

†*Actinoceras*, THOMAS **375.**

†*Ægoceras* with *Æ. aequicosta, daedilicosta* **spp. n.** Lias, TRUEMAN Q. J. Geol. Soc. **74** pp. 273–276.

†*Amblycoceras* with *A. brevilobatum, dissotypum* **spp. n.** Lias, TRUEMAN Q. J. Geol. Soc. **74** pp. 279–282.

†*Ammonites navicularis*, CRICK **fig.** London Proc. Malac. Soc. **13** pl. iv.

†*Androgynoceras* with *A. obtusicosta, divaricosta* **spp. n.** Lias, TRUEMAN Q. J. Geol. Soc. **74** pp. 277–278.

†*Anisoloboceras* **gen. n.** (*Liparoceratidae*), TRUEMAN Q. J. Geol. Soc. **74** p. 263.

†*Aspidoceras* with *A. riazi, douvillei, depereti* & var. *spinosa* **spp. & var. n.** Jura France, COLLOT Paris Bul. géol. Soc. **17** pp. 3–18.

†*Aturia lotzi* **sp. n.** Tertiary S.W. Africa, BÖHM Beitr. Geol. Deutsch. Schutzg. **5** p. 74.—*A. aturi*, NEWTON **293.**

†*Bactrites*, KINDLE **235.**

†*Becheiceras* **gen. n.** (*Liparoceratidae*), TRUEMAN Q. J. Geol. Soc. **74** pp. 263 287.

†*Belemnites*, MEUNIER **275.**

†*Berriasella* (*Aulacosphinctes* ?) *praecox*; *B. patula, cilata, pergrata, adeps, nitida, prava* **spp. n.** Jura, SCHNEID Jena Geol. Pal. Abh. **13** pp. 64–71.

†*Cadomoceras*, COËMME **85.**

†*Cosmoceras gulielmi* **var.** *baltica, groesense, balticum, renteri, tornquisti* **var. & spp. n.** Jura, KRENKEL Palaeont. Stuttgart **61** pp. 257 271 279–282.

Cycloteuthis sirventi **gen. & sp. n.** N. Atlantic, JOUBIN Bull. Inst. Ocean Monaco **351** pp. 1–7.

†*Desmoceras*, CHAPUT **67.**

†*Discosorus* (?) *biconoideus* **sp. n.** Silurian U.S.A., THOMAS Proc. Iowa Acad. **22** p. 298.

†*Gymnites*, DIENER **128.**

†*Hammatoceras*, FOSSA-MANCINI **150.**

†*Huronia* with *H. subcylindrica, hopkintonensis* **spp. n.** Silurian U.S.A., THOMAS Proc. Iowa Acad. **22** pp. 294–297.

†*Liparoceratidae*, TRUEMAN **380.**

†*Liparoceras* with *L. sparsicosta, obtusinodum, tiara, pseudostriatum* **spp. n.** Lias, TRUEMAN Q. J. Geol. Soc.. **74** pp. 265–272.

Loligo pealii, DREW **133.**—*L.*, MORENO **282.**

Octopus, CRAIFALEANU **101.**—*O.*, MORENO **282.**—*Octopus*, ODHNER, **297.**

†*Oistoceras* with *O. alloeotypum* **sp. n.** Lias, TRUEMAN Q. J. Geol. Soc. **74** pp. 283–287.

Ommastrephes, MORENO **282.**

†*Orthoceras brucensis* **sp. n.** Silurian Canada, WILLIAMS Canada Dept. Mines Geol. Surv. Mem. **111** p. 124.

Parinodiceras **gen. n.** (*Liparoceratidae*), TRUEMAN Q. J. Geol. Soc. **74** p. 288.

†*Peltoceras lithuanicum*, **sp. n.** Jura, KRENKEL Palaeont Stuttgart **61** p. 248.

†*Perisphinctes* (*Virgatosphinctes*) *schlosseri, subdanubiensis, viperinus, echidneus, serpens, constrictor, lumbricarius*; *P.* (*Aulacosphinctes* ?) *penicellatus, jubatus, silvescens, diffusus, caesposus, glaber, loricatus*; *P.* (*A.*) *dicratus callodiscus, tortuosus, kyphosus*; *P.* (*A. Holcostephanus* ?) *ramosus torrulosus, crispus, dilogus*; *P.* (*A.*) *loeschi, serotinus, acuticostatus, dacquéi, neoburgensis, callizonus*; *P.* (*Pseudovirgatites*) *advena, scoparius, palmatus, subpalmatus, franconicus*; *P.* (*P.* ?) *spurius* **spp. n.** Jura, SCHNEID Jena Geol. Pal. Abh. **13** pp. 14–60 75–81.—*P.* (*Grossouvria* ?) *arlti, barbarae, bodeni, credneri, windavicus* **spp. n.** Jura, KRENKEL Palaeont. Stuttgart **61** pp. 231–232 237 239 243.

†*Perisphinctinaé*, O'CONNELL **296.**

†*Picenia* **gen. n.** [*Ammonitidaé*] type *P. undulata* **sp. n.** Lias, FOSSA-MANCINI Pisa. Atti Soc. tosc. sc. nat. **32** pp. 143–148.

†*Proplanulites dacquéi* **sp. n.** Jura, KRENKEL Palaeont. Stuttgart **61** p. 247.

†*Psammoceras cloezi*, MEUNIER **275.**

†*Pseudolioceras*, FOSSA-MANCINI **153.**

†*Pseudovirgatites* (*Hoplites* ?) *ambiguus, dubius*, **spp. n.** Jura, SCHNEID Jena Geol. Pal. Abh. **13** pp. 84–85.

†*Quenstedtoceras maxsei* **sp. n.** Jura, KRENKEL Palaeont. Stuttgart **61** p. 227.

Rondeletia minor, ZIRPOLO **411.**

Sepia officinalis, GALIANO **164.**—*S.*, MORENO **282.**

Sepiola, MORENO **282.**

†*Simoceras rothpletzi, broilii, schwertschlageri*, **spp. n.** Jura, SCHNEID Jena Geol. Pal. Abh. **13** pp. 88–92.

Spirula peronii, GARDINER **165.**

†*Vicininodiceras* **gen. n.** (*Liparoceratidae*), TRUEMAN Q. J. Geol. Soc. **74** p. 289.

†*Volborthella* **Fam. n.** (*Cephalopoda*) KIÆR Skrift. Vid. Christiania **1916** p. 27.

INCERTAE SEDIS.

†*Amauropsella julei* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. iv figs. 51–53.

†*Amphitrochilia*, COUFFON **100.**

†*Ampullospira*, COSSMANN & PEYROT **99.**

†*Antinodulus*, COSSMANN & PEYROT **99.**

†*Boutillieria contracta, montensis* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. ii figs. 43–60.

†*Coclopis*, COUFFON **100.**

†*Coemansia conica* **fig.**, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pl. iv figs. 1–2.

†*Chevallieria*, COSSMANN & PEYROT **99.**

†*Crepitacella cepula* **var. n.** *spiralistriata* Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 286.

Cryptonatica aleutica **sp. n.** Alaska, DALL J. Biol. Soc. Washington **32** p. 251.

†*Cymenorhytis* with *C. degrangei* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** p. 328.

†*Dillwynella houzeaui* **fig.**; *aulacophora* **sp. n.** Montien Belgium, COSSMANN Mem. Mus. R. Hist. Nat. Belgique **6** pp. 35–36 pl. iii figs. 35–38 45–48.

Emarginella, ODHNER **297.**

†*Helcionella*, KIÆR **234.**

†*Jurassiphorus*, COUFFON **100.**

†*Lamelliphorus*, COUFFON **100.**

Lucinoma annulata densilirata **var. n.** Alaska, DALL Washington Proc. Biol. Soc. **32** p. 249.

†*Medoriopsis* with *M. saucatsensis* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 449–450.

†*Micreschara* with *M.* (*Macromphalina*) *aturensis* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes. soc. linn. **70** pp. 324–326.

†*Ooliticia*, COUFFON **100.**

†*Plesiothyreus* with *P. sacyi* **sp. n.** Neogene France, COSSMANN & PEYROT Bordeaux Actes soc. linn. **70** pp. 310–313.

†*Poleumita prosseri*, *paveyi* **spp. n.** Silurian Ohio, FOERSTE Ohio Nat. **19** pp. 384–385.

†*Polyamma burdekinensis* **sp. n.** Devon. Queensland, ETHERIDGE Queensland Geol. Surv. Pub. **260** p. 16.

†*Proconulus*, COUFFON **100.**

†*Promathildia*, COUFFON **100.**

†*Pseudotaphrus*, COSSMANN & PEYROT **99.**

†*Risselloidea*, COUFFON **100.**

†? *Schafhäutlia*, MARIANI **259.**

Skeneopsis alaskana **sp. n.** Behring Sea, DALL Washington Proc. Biol. Soc. **32** p. 251.

†*Stutchburia*, ETHERIDGE **138.**

†*Teliostoma* (?) *sauri* **sp. n.** Eocene Croatia, DAINELLI Atti Soc. tosc. sc. nat. **32** p. 26.

†*Terebrella*, COUFFON **100.**

†*Tritia golfoyaquensis* **sp. n.** Tertiary S. Domingo, MAURY Bul. Amer. Pal. **5** p. 256.

Tritonalia interfossa beta **var. n.**, California, DALL Washington Proc. Biol. Soc. **32** p. 250.

IX. ARTHROPODA

(GENERAL)

BY

D. SHARP.

CONTENTS

	PAGE
I. Titles	1
II. Subject Index..	1

N.B.—For Protura *vide* XII. Insecta, Aptera.

I.—TITLES.

Coutière, H. Le membre des Arthropodes. C. R. Ac. Paris **168** 1919 (1228–1231). **1**

Crampton, G. C. The evolution of Arthropods and their relatives, with especial reference to Insects. Amer. Natural. New York **53** 1919 (143–179). **2**

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II.—SUBJECT INDEX.

STRUCTURE. **2407**

Coutière, 1 ; Demoll, 3.

ETHOLOGY. **2419**

Rabaud, 4, 5, 6, 7.

EVOLUTION. **2423**

Crampton, 2.

X. CRUSTACEA

ARRANGED BY

W T. CALMAN, D.Sc., F.R.S.

CONTENTS

	PAGE
I. Titles	3
II. Subject-Index :—	
General, Economics	8
Structure	9
Physiology	9
Development	9
Ethology	9
Variation and Aetiology	10
Distribution :—	
1. Geographical :—	
A. General (vacant).	
B. Land and Fresh-water	10
C. Marine	11
2. Geological	11
III. Systematic Index :—	
Decapoda	12
Brachyura	12
Oxyrhyncha	12
Cyclometopa	12
Catometopa	12
Oxystomata	13
Dromiacea	13

PAGE

Anomura 13
Galatheidea (vacant).
Paguridea 13
Hippidea (vacant).
Macrura 13
Nephropsidea 13
Eryonidea 13
Loricata (vacant).
Thalassinidea 13
Caridea 13
Penaeidea 14
Stenopidea... 14
Euphausiacea... 14
Mysidacea 14
Syncarida 15
Stomatopoda 15
Cumacea (vacant).
Tanaidacea 15
Isopoda 15
Asellota... 15
Phreatoicidea (vacant).
Flabellifera 15
Valvifera 15
Epicaridea 15
Oniscoidea 15
Amphipoda 15
Gammaridea 15
Hyperiidea 16
Caprellidea (vacant).
Phyllocarida 16
Branchiopoda 16
Phyllopoda 16
Cladocera 16
Copepoda 16
Branchiura (vacant).
Ostracoda 17
Cirripedia 18

I.—TITLES.

Almeroth, H. Über weitere neue Entomostraken aus dem Litoral des Genfer Sees. Zool. Anz. Leipzig **50** 1919 (252–255). **1**

Birabén, M. Sobre algunos Cladóceros de la Republica Argentina. Rev. Mus. La Plata Buenos Aires **24** 1919 (82–126) text-figs. **2**

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Caullery, M. et **Mesnil,** F. *Xenocoeloma brumpti* C. et M. Copépode parasite de *Polycirrus arenivorus* C. Bull. Biol. France Belgique Paris **53** 1919 (161–233) pls. i–iv text-figs. **16**

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Charmoy, d'Emmerez de *vide* Bouvier, E. L.

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Henry, Marguerite. On some Australian Cladocera. Sydney J. Roy. Soc. N.S. Wales **52** 1918 (1919) (463–485) pls. xl–xlii. **53**

Herbst, C. Über die Regeneration der Schwanzbeine von Palaemon nach Entfernung der Schwanzganglien. Arch. Entw. Mech. Leipzig **43** 1917 (329–342) text-figs. **54**

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II.—SUBJECT INDEX.

N.B.—The numbers in Clarendon type refer to list of Titles, except when they indicate a Volume.

GENERAL. 2603

Expeditions.

"Nimrod," *Ostracoda*; **Chapman, 18.**

"Siboga," *Sergestidae*; **Hansen, 49.**

Economics.

Cyclops as intermed. host of *Dibothriocephalus*; **Janicki** and **Rosen, 59**; Brachyura as intermed. hosts of *Paragonimus*; **Nakagawa, 76.**

Crustacea as food of young fish (marine); **Lebour, 66 & 67.**

Birgus (*Pagur.*) and *Parathelphusa* (*Cyclom.*) as agric. pests in Dutch E. Indies; **Dammerman, 38.**

Marine timber and rock-boring *Isopoda, Amphipoda*; **Calman, 12**; **Chilton, 24.**

STRUCTURE. 2607

General.

Bathynella (*Syncar.*); **Delachaux, 39**; *Xenocoeloma* (*Copep. paras.*); **Caullery** et **Mesnil, 16**; *Salmincola* (*Copep. paras.*); **Fasten, 42**; *Sphyriidae* (*Copep. paras.*); **Wilson, 116.**

Morphol. of Trilobites and *Crustacea*; **Calman, 13.**

Exoskeleton.

Head shield, *Cladocera*; **Guth, 48.**

Appendages.

Morphol. of appendages, *Crustacea*; **Coutière, 33**; *Asellus*; **Racovitza, 83.**

Circulatory System.

Heart, *Nematoscelis* (*Euphaus.*); **Colosi, 32.**

Respiratory System.

Resp. passages, *Ocypodidae* (*Catom.*); **Kemp, 61.**

Excretory System.

Maxillary gland *Phyllognathopus* (*Copep.*); **Mrázek, 75.**

Miscellaneous.

Dermal glands, *Anostraca* (*Phyll.*); **Zograf, 119.**

PHYSIOLOGY. 2611

Digestive ferment of *Maia* (*Oxyrh.*); **Craifaleanu, 35**; Extractive substances, *Decapoda*; **Okuda, 77**; Muscle proteins, *Decapoda*; **Okuda** and others, **78**; Exper. formation of melanin, *Decapoda*; **Verne, 111**; Lecithin and growth, *Crustacea*; **Paul** and **Sharpe, 80.**

Action of narcotics and KCN on *Daphnia*; **Buytendyk, 9.**

Reactions to light, *Nerocila* (*Flabell.*); **Drzewina** et **Bohn, 41.**

Equilibration in *Astacus*; **Kühn, 65.**

Exper. on reproductive cycles of *Cladocera*; **Bruvo, 7.**

Effect of radium on oögenesis, *Daphnia*; **Herwerden, 57.**

Relative sizes of cell, nucleus and nucleolus, *Cladocera*; **Hartmann, 50.**

DEVELOPMENT. 2615

Oogenesis and Spermatogenesis.

Oögenesis, *Daphnia*; **Herwerden, 57.**

Origin of yolk, *Ubius* (*Copep. paras.*); **Kesteven, 63.**

Embryology.

Palaemonidae (*Carid.*); **Roule, 92**; **Sollaud, 97, 98.**

Xenocoeloma (*Copep. paras.*); **Caullery** et **Mesnil, 16.**

Origin of testes, *Xenocoeloma*; **Caullery** and **Mesnil, 15.**

Metamorphosis, Larval Forms, &c.

Upogebia; **Webb, 113**: *Bathynella* (*Syncar.*); **Delachaux, 39**: *Copepoda*; **Currie, 36**: *Harpacticidae* (*Copep.*); **Brian, 8**: Copepodid and later stages *Salmincola* (*Copep. paras.*); **Fasten, 42.**

Generation Cycles.

Life-cycle, *Simocephalus* (*Clad.*); **Green, 47.**

Regeneration.

Regen. of uropods, *Palaemon*; **Herbst, 54**: of chelipeds, *Gelasimus* (*Catom.*); **Przibram, 82**: of Antenna, *Ligyda* (*Onisc.*); **Takesita, 102.**

ETHOLOGY. 2619

General.

Habits, &c., marine *Decapoda* and *Mysidacea*; **McIntosh, 72**: *Gecarcinus* (*Catom.*); **Lobo, 69**: *Oniscoidea*; **Gräve, 45.**

Sphaeroma (*Flabell.*) boring in rock; **Chilton, 24.**

Habitats.

Shore *Decapoda*, Orissa; **Gruvely, 46**: *Oniscoidea*; **Dahl, 37.**

Decapoda in Mangrove swamps, Brazil; **Luederwaldt, 70.**

Plankton, Marine; **Herdmann, 55 56.**

Subterranean, *Bathynella* (*Syncar.*); **Delachaux, 39**: *Gammaridea*; **Isnard, 58.**

Parasitism, Commensalism, &c.

On Fish, *Copepoda*; **Leigh-Sharpe, 68**; **Wilson, 115, 116.**

On Crinoid, *Gammaridea*; **Shoemaker, 96.**

On Annelids, *Copepoda*; **Caullery et Mesnil, 16.**

On *Crustacea*, *Epicaridea*; **Caullery et Mesnil, 14.**

Larvae of *Dibothriocephalus* in *Cyclops*; **Janicki** and **Rosen, 59.**

Fungi in gut, *Oniscoidea*; **Boissevain, 3.**

Association of *Paguridae* with sea-anemones; **Cowles, 34.**

VARIATION AND AETIOLOGY. 2623

Variation.

Potamon (*Cyclom.*); **Matteotti, 74.**

Var. in development, *Copepoda*; **Currie, 36**: Larval variations, *Palaemonetes* (*Carid.*); **Sollaud, 99.**

Mutations in *Atyidae* (*Carid.*); **Bouvier** et **de Charmoy, 6**; *Colosi*, **31**; in *Atyidae* and *Euphausiacea*; **Colosi, 30.**

Inheritance of varietal characters in *Cyclops*; **Byrnes, 10.**

Teratology.

Abnorm. head appendages, *Parachaeraps* (*Nephrops.*); **Raff, 85.**

Intersexuality in *Daphne* (*Cladocera*); **de la Vaulx, 108.**

DISTRIBUTION. 2627

1. GEOGRAPHICAL.

A. General.

[Vacant.]

B. Land and Freshwater (including Salt Lakes.)

Records of *Potamonidae* (*Cyclom.*); **Colosi, 29.**

Europe and Mediterranean Islands. *d*

Asellus; **Racovitza, 83.**

Denmark, Furesø, *Crustacea*; **Wesenberg-Lund, 114.**

Finland, *Cladocera*; **Järnefelt, 60**; **Wuorentaus, 117.**

Caucasus, *Oniscoidea*; **Verhoeff, 110.**

Germany, *Oniscoidea*; **Dahl, 37**; Bonn, *Oniscoidea*, *Talitrus* (*Gamm.*); **Gräve, 45.**

British Ids., *Oniscoidea*; **Collinge, 27**; Yorkshire, *Oniscoidea*; **Stainforth, 100**: East Sussex, *Oniscoidea*; Hastings and E. Sussex Nat. 3 No. 2 1919 pp. 4–7.

France, *Oniscoidea*; **Verhoeff, 110**: Jura, *Cladocera*; **Vandel, 107**: S. France, *Asellus*; **Racovitza, 84**: Nice, *Gammaridea*; **Isnard, 58.**

Italy, *Oniscoidea*; **Verhoeff, 110**: Pavia, *Cladocera*; **Bravo, 7.**

Switzerland, Neuchâtel and Berne, *Bathynella* (*Syncar.*); **Delachaux, 39**: L. of Geneva, *Cladocera*, *Copepoda*; **Almeroth, 1.**

Austria, *Oniscoidea*; **Verhoeff, 109**: Istria (brackish), *Copepoda*; **van Douwe, 40.**

Asia and Malay Archipelago. *e*

Japan, Formosa, Hainan, *Caridea*; **Parisi, 79.**

Tonkin, *Caridina* (*Carid.*); **Bouvier, 5.**

Chilha Lake and Cochin, India (brackish), *Copepoda*; **Sewell, 95.**

Syria, *Asellus*; **Racovitza, 84**: Palestine, *Oniscoidea*; **Verhoeff, 110.**

Africa and Madagascar. *f*

Algiers, *Asellus*; **Racovitza, 84.**

Natal, *Oniscoidea*; **Collinge, 28.**

Madagascar, *Caridina* (*Carid.*); **Bouvier, 5.**

North America. *g*

[Vacant.]

Central and South America and West Indies. *h*

Honduras, *Copepoda*; **Marsh, 73.**

Colombia, Venezuela, Brit. Guiana, *Potamonidae* (*Cyclom.*); **Rathbun, 87.**

Brazil, S. Paulo, *Decapoda*; **Luederwaldt, 71.**

Argentine, *Cladocera*; **Birabén, 2.**

Australasia. *i*

Aru and Kei Ids., *Caridea, Penaeidea, Nephropsidea, Cyclometopa, Catometopa*; **Roux, 93.**

Cape York, *Potamonidae* (*Cyclom.*); **Colosi, 29.**

N.S. Wales, *Cladocera*; **Henry, 53.**

Tasmania, *Hymenosoma* (*Catom.*); **Chilton, 25.**

Arctic. *k*

[Vacant.]

Atlantic Islands. *l*

S. Trinidad, *Gecarcinus* (*Catom.*); **Lobo, 69.**

Indian Ocean Islands. *m*

[Vacant.]

Pacific Ocean Islands. *n*

Fiji, *Potamonidae* (*Cyclom.*); **Colosi, 29.**

Antarctic. *o*

[Vacant.]

C. MARINE.

(The arrangement is based on that of Borradaile, Bibliography of the Marine Fauna, Challenger Society. 2nd Edn., 1914.)

General.

Distrib. of *Sergestidae*; **Hansen, 49.**

Atlantic and Indo-Pacific, *Cirripedia*; **Calman, 11.**

North Atlantic.

Gammaridea; **Chevreux, 20**: *Scinidae* (*Hyper.*); **Chevreux, 21**: *Ostracoda*; **Granata, 44.**

Norway, *Copepoda*; **Sars, 94.**

Scotland, St. Andrews, *Mysidacea*, *Decapoda*; **McIntosh, 72.**

Plymouth, *Copepoda* (*paras.*); **Leigh-Sharpe, 68.**

Cape la Hague, *Epicaridea*; **Caullery et Mesnil, 14.**

Morocco, *Decapoda, Stomatopoda*; **Ferrer y Galdiano, 43.**

Off N. America, *Copepoda paras.*; **Wilson, 116**: Bay of Fundy, *Tanaidacea, Isopoda*; **Wallace, 112.**

Mediterranean.

Scinidae (*Hyper.*); **Chevreux, 21**: Adriatic, *Decapoda, Paguridea*; **Pesta, 81.**

Tropical Atlantic.

Brazil, *Decapoda*; **Luederwaldt, 70**: S. Paulo, *Decapoda, Stomatopoda*; **Luederwaldt, 71**: Brazil, Paraguay, *Sergestidae*; **Hansen, 49.**

Southern Ocean.

New Zealand, *Orchestia* (*Gamm.*); **Chilton, 22**: *Gammaridea*; **Chilton, 23.**

North Pacific.

Japan, *Catometopa*; **Rathbun, 90**: *Brachyura*; **Urita, 106**: *Penaeidea, Stenopidea, Caridea*; **Parisi, 79**: *Sympasiphaea* (*Carid.*); **Terao, 103**: *Penilia* (*Cladocera*); **Yendo, 118**: *Copepoda paras.*; **Wilson, 116.**

S. California, *Copepoda* (*paras.*); **Wilson, 115.**

Eastern Pacific.

[Vacant.]

Indo-Pacific.

Natal, *Caridea*; **Stebbing, 101.**

India, *Macrophthalmus* (*Catom.*); **Kemp, 62**: *Scopimerinae* (*Catom.*); **Kemp, 61**: Orissa, *Decapoda*; **Gravely, 46**: Chilka Lake and Cochin, India (brackish), *Copepoda*; **Sewell, 95.**

Malay Archip., *Sergestidae*; **Hansen, 49.**

Batavia, Stomatopoda of Visscherystation; **Sunier 101a.**

China Sea, *Sergestidae*; **Hansen, 49**: *Gammaridea*; **Shoemaker, 96.**

Arctic.

Arctic America, *Decapoda*; **Rathbun, 91.**

Antarctic.

Ross Sea, *Ostracoda*; **Chapman, 18.**

2. GEOLOGICAL.

Palaeozoic.

Tonkin, *Ostracoda, Phyllocarida*; **Mansuy, 72a.**

Silurian.

Sweden, *Cirripedia*, *Ostracoda*; **Hede, 51**: *Ostracoda*; **Hede, 52**: *Ostracoda*; **Troedsson, 105.**

Spain, *Ostracoda*; **Born, 4.**

Devonian.

Canada, *Ostracoda*; **Kindle, 64.**

Triassic.

Central and S.E. Europe, *Ostracoda Dromiacea*; **Trauth** and **Kittl, 104.**

Tertiary.

Eocene, Oligocene, Miocene, W. Indies, *Caridea*, *Eryonidea*, *Thalassinidea*, *Paguridea*, *Oxystomata*, *Cyclometopa*, *Catometopa*, *Oxyrhyncha*; **Rathbun, 89.**

Pleistocene, &c.

Victoria, *Ostracoda*; **Chapman, 19.**

Raised deposits, shores of Ross Sea, Antarctic, *Ostracoda*; **Chapman, 17.**

III.—SYSTEMATIC. 2631

N.B.—The numerals in Clarendon type, when not indicating a Volume, refer to Titles.

DECAPODA.

FERRER Y GALDIANO **43.**—GRAVELY **46.**—LUEDERWALDT **70, 71.**—McINTOSH **72.**—OKUDA **77.**—OKUDA and others **78.**—PESTA **81.**—RATHBUN **91.**—VERNE **111.**

Brachyura.

NAKAGAWA **76.**—URITA **106.**

Early fossil Brachyura of doubtful affinities, *vide* DROMIACEA.

OXYRHYNCHA.

CRAIFALEANU **35.**

†*Mesorhoea mauryae* **sp. n.** Miocene, S. Domingo p. 181 figs., RATHBUN Carnegie Inst. Washington Pub. **291.**

†*Parthenope* (*Platylambrus*) *obscura* **sp. n.** Miocene, S. Domingo, p. 180 figs., RATHBUN t.c.

CYCLOMETOPA.

DAMMERMAN **38.**

†*Archaeopilumnus* **gen. n.** near *Pilumnus*, *caclatus* **sp. n.** Miocene, S. Domingo p. 177 figs., RATHBUN Carnegie Inst. Washington Pub. **291.**

†*Callinectes declivis* Miocene, S. Domingo p. 174 figs., RATHBUN t.c.

Paratelphusa (*Barytelphusa*) *edentula* p. 53 figs., *antipoloensis* p. 54 figs. (*Liotelphusa*) *Podenzanae* **sp. n.** Cape York p. 54 figs., *insularis* **sp. n.** Fiji p. 58 figs., COLOSI Bull. Soc. Ent. Ital. **50.**—*P.* (*Liotelphusa*) *aruana* p. 345 figs., ROUX Abh. Senckenb. Ges. **35.**

†*Pilumnus subequus* **sp. n.** Miocene, S. Domingo p. 177 fig., RATHBUN Carnegie Inst. Washington Pub. **291.**

†*Podophthalmus domingensis* **sp. n.** Miocene, S. Domingo p. 175 figs., RATHBUN t.c.

†*Portunus gabbi* Miocene, S. Domingo p. 172, *tenuis* Miocene, S. Domingo p. 173, **spp. n.** figs., RATHBUN t.c.

Potamocarcinus dunoonensis **sp. n.** Brit. Guiana p. 6, RATHBUN Proc. Biol. Soc. Washington **32.**

Potamon edule p. 43, *potamios* p. 44, *thagatense* p. 47 fig., (*Geotelphusa*) *tenasserimense* p. 49 fig., COLOSI Bull. Soc. Ent. Ital. **50.**—*P. edule* variation p. 12 figs., MATTEOTTI Bull. Soc. Ent. Ital. **50.**

Pseudothelphusa martensis Colombia, *iturbei* Venezuela, **spp. n.** p. 5, RATHBUN Proc. Biol. Soc. Washington **32.**

†*Scylla costata* **sp. n.** Miocene, S. Domingo p. 170 figs., RATHBUN Carnegie Inst. Washington Pub. **291.**

†*Zanthopsis bartholomaeensis* **sp. n.** Eocene, St. Bartholomew p. 176 fig., RATHBUN t.c.

CATOMETOPA.

CHILTON **25.**—PRZIBRAM **82.**

Dotilla mycteroides p. 326, *sulcata* p. 328, *pertinax*, *wichmanni* p. 329, *blanfordi* p. 330, *intermedia* p. 331, figs., KEMP Rec. Ind. Mus. **16.**

Dotillopsis **gen. n.** (*Scopimerinae*) p. 334, *brevitarsis* p. 335 figs., KEMP t.c.

Eriocheir misakiensis **sp. n.** Japan p. 593 figs., RATHBUN Bull. Amer. Mus. Nat. Hist. **41.**

Gecarcinus lagostoma habits p. 147 figs., LOBO Arch. Mus. Nac. Rio de Janeiro **22**.

Macrophthalmus transversus p. 386, *telescopicus* p. 387, *sulcatus* p. 388, *convexus* p. 389, *crinitus* p. 390, *teschi* **sp. n.** India p. 393, figs., KEMP Rec. Ind. Mus. **16**.

†*Sandomingia* **gen. n.** near *Uca* [*Gelasimus*] p. 179, *yaquiensis* **sp. n.** Miocene, S. Domingo p. 180 figs., RATHBUN Carnegie Inst. Washington Pub. **291**.

Scopimera globosa p. 312, *pilula* **sp. n.** India p. 314, *investigatoris* p. 316, *proxima* **sp. n.** India p. 317, *inflata* p. 321, figs., KEMP Rec. Ind. Mus. **16**.

Sesarma (*Episesarma*) *atrorubens* p. 349, (*Parasesarma*) *leptosoma* p. 349, *moluccensis* p. 349, ROUX Abh. Senckenb. Ges. **35**.

Tympanomerus stevensi **sp. n.** p. 339, *frater* **sp. n.** p. 342, *lingulatus* p. 344, *gangeticus* **sp. n.** p. 347, India, figs., KEMP Rec. Ind. Mus. **16**.

OXYSTOMATA.

†*Calappella* sp. Miocene, S. Domingo p. 169 fig., RATHBUN Carnegie Inst. Washington Pub. **291**.

†*Cycloes bairdii* Miocene, S. Domingo p. 170 fig., RATHBUN t.c.

†*Lyreidus fastigatus* **sp. n.** Oligocene, Anguilla p. 168 fig., RATHBUN t.c.

†*Persephona prepunctata* **sp. n.** Miocene, S. Domingo p. 170 fig., RATHBUN t.c.

DROMIACEA.

†*Cyclocarcinus serratus* p. 186 *stellifer* **sp. n.** (TRAUTH) p. 188, *reticulatus* **sp. n.** (TRAUTH) p. 188, *tenuicarinatus* **sp. n.** (KITTL) p. 189, *bosniacus* **sp. n.** (KITTL) p. 190, Trias, Europe, figs., TRAUTH and KITTL Wien Ann. Nat. Hofmus. **32**.

Dromidiopsis edwardsi **nom. n.** for *D. caput mortuum* M. E. *non* Linn. p. 197, RATHBUN Proc. Biol. Soc. Washington **32**.

†*Hemitrochiscidae* fam. n. p. 180, TRAUTH Wien Ann. Nat. Hofmus. **32**.

†*Mesoprosopon triasinum* p. 178 figs., TRAUTH t.c.

†*Oonocarcinus puchoviensis* **sp. n.** Trias, Europe, p. 184 figs., KITTL in TRAUTH t.c.

Anomura.

GALATHEIDEA.

[Vacant.]

PAGURIDEA.

COWLES **34**.—DAMMERMAN **38**.

†*Paguridae* Miocene, S. Domingo p. 167, RATHBUN Carnegie Inst. Washington Pub. **291**.

Anapagurus laevis p. 228 figs., PESTA Wien Ann. Nat. Hofmus. **30**.

Eupagurus prideauxi p. 228 figs., PESTA t.c.

†*Petrochirus inequalis* **sp. n.** Miocene, S. Domingo p. 167 figs., RATHBUN Carnegie Inst. Washington Pub. **291**.

HIPPIDEA.

[Vacant.]

Macrura.

NEPHROPSIDEA.

KÜHN **65**.—RAFF **85**.

Cheraps quadricarinatus p. 344, ROUX Abh. Senckenb. Ges. **35**.

EYRONIDEA.

†*Eryonidae* Miocene, W. Indies p. 163 fig., RATHBUN Carnegie Inst. Washington Pub. **291**.

LORICATA.

[Vacant.]

THALASSINIDEA.

†*Callianassa anguillensis* Oligocene, Anguilla p. 164, *latidigita* Miocene, S. Domingo p. 165, *pellucida* Oligocene, Anguilla p. 165, *miocenica* Miocene, S. Domingo p. 166, **spp. n.** figs., RATHBUN Carnegie Inst. Washington Pub. **291**.

Upogebia deltura, stellata, larvae p. 81 figs., WEBB J. Mar. Biol. Ass. **12**.

CARIDEA.

BOUVIER et DE CHARMOY **6**.—COLOSI **30**, **31**.—HERBST **54**.—ROULE **92**.—SOLLAUD **97**, **98**, **99**.

Alope australis p. 121 figs., STEBBING Ann. Durban Mus. **2**.

Alpheus gracilis p. 123 figs., STEBBING t.c.—*A. hippothoë* var. n. *bahamensis* p. 247, *nigro-spinatus* **sp. n.** Bahamas p. 249, figs., RANKIN Ann. N.Y. Acad. Sci. **11** [omitted Zool Rec. 1898].

Caridina alphonsi (loc ?) p. 330, *tonkinensis* Tonkin p. 331, *cavalerii* Gan-chouen-fou p. 332, *calmani* Madagascar p. 334, **spp. n.**, BOUVIER Bull. Mus. Paris **1919**.—*C. nilotica* var. *brachydactyla* p. 319, var. n. *brevidactyla* p. 320, var. *arvensis* p. 321, var. *gracilirostris* p. 322, *serratirostris* p. 325, *weberi* var. *keiensis* p. 325, *opaensis* p. 327, *mertoni* p. 328, *typa* p. 329, Aru and Kei Is., ROUX Abh. Senckenb. Ges. **35.**

Conchoctytes nipponensis p. 74 figs., PARISI Atti Soc. Ital. Sci. Nat. **58.**

†*Crangonidae* Miocene, W. Indies p. 163 fig., RATHBUN Carnegie Inst. Washington Pub. **291.**

Cristiger Borr., subg. of *Periclimenes* should be called *Periclimenes* p. 199, CLARK Proc. Biol. Soc. Washington **32.**

Cuapetes **nom. n.** for *Falciger* Borr. subg. of *Periclimenes* p. 199, CLARK t.c.

Heterocarpus sibogae p. 71, figs., PARISI Atti Soc. Ital. Sci. Nat. **58.**

Hippolysmata marleyi **sp. n.** Natal p. 120 figs., STEBBING Ann. Durban Mus. **2.**

Laomenes **nom. n.** for *Corniger* Borr. subg. of *Periclimenes* p. 199, CLARK Proc. Biol. Soc. Washington **32.**

Leander concinnus p. 341, *lepidus* p. 342, ROUX Abh. Senckenb. Ges. **35.**—*L. japonicus, carinatus*, p. 77 figs., PARISI Atti Soc. Ital. Sci. Nat. **58.**—*L. northropi* **sp. n.** Bahamas p. 245, fig., RANKIN Ann. N.Y. Acad. Sci. **11** [omitted Zool. Rec. 1898.]

Palaemon (*Eupalaemon*) *lar* p. 330, *sundaicus* p. 334, *dispar* p. 336, (*Macrobrachium*) *latidactylus* p. 337, *latimanus* p. 340, *lampropus* p. 340, *bariensis* p. 341, ROUX Abh. Senckenb. Ges. **35.**—*P.* (*Eupalaemon*) *longipes* p. 79, *nipponensis* p. 80, *superbus* p. 81, *venustus* **sp. n.** Hainan p. 82, (*Parapalaemon*) *japonicus* p. 83, *insularis* **sp. n.** Formosa p. 85, *hainanense* **sp. n.** Hainan p. 87, figs., PARISI Atti Soc. Ital. Sci. Nat. **58.**

Processa japonica p. 88 figs., PARISI t.c.

Sclerocrangon angusticanda p. 90 fig., PARISI t.c.

Sympasiphaea imperialis **sp. n.** Japan p. 480, TERAO Dobuts. Z. Tokyo **30.**

PENAEIDEA.

Acetes vulgaris **sp. n.** Malay Archip. p. 35, *sibogae* **sp. n.** Malay Archip. p. 38, *dispar* **sp. n.** Java, Siam p. 39, *chinensis* **sp. n.** China Sea p. 41, *serrulatus* p. 41, *spiniger* **sp. n.** Java etc. p. 43, *brasiliensis* **sp. n.** Brazil p. 45, *paraguayensis* **sp. n.** Rio Paraguay p. 46, figs., HANSEN Sergestidae Siboga.

Aristaeomorpha rostridentata p. 59 figs., PARISI Atti Soc. Ital. Sc. Nat. **58.**

Lucifer typus p. 53, *orientalis* **sp. n.** Malay Archip. p. 55, *intermedius* **sp. n.** Malay Archip. p. 57, *penicillifer* **sp. n.** Malay Archip. p. 59, *faxonii* p. 61, *hanseni* p. 63, figs., HANSEN Sergestidae Siboga.

Parapenaeopsis cornutus p. 64 figs., PARISI Atti Soc. Ital. Sci. Nat. **58.**

Penaeopsis joyneri p. 60, *barbatus* p. 61, *lamellatus* p. 62, *mogiensis* p. 63, *coniger* var. *andamanensis* p. 64, figs., PARISI t.c.—*P. monoceros* p. 343, ROUX Abh. Senckenb. Ges. **35.**

Penaeus semisulcatus var. n. *paucidentatus* Japan p. 65 fig., PARISI Atti Soc. Ital. Sci. Nat. **58.**

Sergestes inous p. 8, *gardineri* p. 9, *bisulcatus* p. 11, *challengeri* p. 13, *fulgens* **sp. n.** p. 17, *seminudus* **sp. n.** p. 18, *orientalis* **sp. n.** p. 22, Malay Archip., figs., HANSEN Sergestidae Siboga.

Sicyonella maldivensis p. 28, *antennata* **sp. n.** p. 30, Malay Archip., figs., HANSEN t.c.

Sicyonia japonica p. 66 figs., PARISI Atti Soc. Ital. Sci. Nat. **58.**

STENOPIDEA.

Stenopus scutellatus **sp. n.** Bahamas p. 242 fig., RANKIN Ann. N.Y. Acad. Sci. **11** [omitted Zool. Rec. 1898].

EUPHAUSIACEA.

COLOSI **30, 32.**

MYSIDACEA.

MCINTOSH **72.**

SYNCARIDA.

Bathynella chappuisi **sp. n.** Neuchâtel p. 1 figs., DELACHAUX Bull. Soc. Sci. Nat. Neuchâtel **44.**

STOMATOPODA.

FERRER Y GALDIANO **43.**—LUEDERWALDT **71.**—SUNIER **101a.**

CUMACEA.

[Vacant.]

TANAIDACEA.

Leptochelia filum p. 12, *profunda* **sp. n.** Bay of Fundy p. 16, figs., WALLACE Univ. Toronto Stud. Biol. Ser. **18.**

Leptognathia (?) *psammophila* **sp. n.** Bay of Fundy p. 10 figs., WALLACE t.c.

Typhlotanais aequiremis p. 7, *mananensis* **sp. n.** Bay of Fundy p. 8, figs., WALLACE t.c.

ISOPODA.

ASSELLOTA.

Asellus aquaticus p. 37, *meridianus* **sp. n.** England, France, p. 41, *banyulensis* **sp. n.** France p. 49, *coxalis* p. 55, *coxalis* subsp. n. *peyerimhoffi* Algiers p. 68 figs., RACOVITZA Arch. zool. Paris **58** Notes et Revue.

Eurycope mutica p. 38 figs., WALLACE Univ. Toronto Stud. Biol. Ser. **18.**

Munna fabricii p. 27 figs., WALLACE t.c.

Pleurogonium rubicundum p. 29, *inerme* p. 32, *spinosissimum* p. 35, figs., WALLACE t.c.

PHREATOICIDEA.

[Vacant.]

FLABELLIFERA.

DRZEWINA ET BOHN **41.**—CALMAN **12, 13.**—CHILTON **24.**

VALVIFERA.

Edotea triloba p. 24 figs., WALLACE Univ. Toronto Stud. Biol. Ser. **18.**

EPICARIDEA.

Ancyroniscus **gen. n.** (*Cabiropsidae*) *bonnieri* **sp. n.** on. *Dynamene* Cape la Hague p. 1430, CAULLERY et MESNIL C. R. Acad. Sci. Paris **169.**

ONISCOIDEA.

BOISSEVAIN **3.**—COLLINGE **27.**—STAINFORTH **100.**—TAKESITA **102.**—VERHOEFF **109.**

Akermania **gen. n.** near *Cubaris*, *spinosa* **sp. n.** Natal p. 230 figs., COLLINGE Ann. Natal Mus. **4.**

Armadillidium rehobotense **sp. n.** Jaffa p. 172 fig., VERHOEFF Jahresb. Ver. Württemb. **73.**

Cylisticus esterelanus Esterel p. 151, var. *griseus* Riviera p. 156, *inferus*, Italy p. 151, *caucasius* Caucasus p. 152, **spp. n.** figs., VERHOEFF t.c.

Haloporcellio **subgn. n.** of *Porcellio* (*q.v.*) p. 169, VERHOEFF t.c.

Porcellio (*Agabiformius*) *aharonii* p. 163 (*Proporcellio*) *quadriseriatus* p. 167, (*Haloporcellio*) *penicilliger* p. 170, **spp. n.** Jaffa, figs., VERHOEFF t.c.

Trichoniscus (*Spiloniscus*) *rhenanus* **sp. n.** p. 183, *pygmaeus* var. n. *horticola* p. 187, (*Trichoniscoides*) *albidus* var. n. *topiaria* p. 190, *stebbingi* var. n. *rhenana* p. 191, Boun, figs., GRÄVE Bonn Verh. nathist. Ver. **70.**—*T. verhoeffi* **sp. n.** Germany p. 209 figs., DAHL Zool. Anz. **50.**

AMPHIPODA.

GAMMARIDEA.

CALMAN **12, 13.**—CHILTON **24.**

Ceina egregia p. 120 figs., CHILTON Trans. N.Z. Inst. **51.**

Euonyx talismani **sp. n.** N. Atlantic p. 576, CHEVREUX Bull. Mus. Paris **1919.**

Haploops proxima **sp. n.** N. Atlantic p. 577, CHEVREUX t.c.

Harpinia brevirostris **sp. n.** N. Atlantic p. 578, CHEVREUX t.c.

Laphystiopsis iridometrae **sp. n.** on *Iridometra*, China Sea, p. 245, SHOEMAKER Proc. Biol. Soc. Washington **32.**

Leucothoe spinulosa **sp. n.** N. Atlantic p. 579, CHEVREUX Bull. Mus. Paris **1919.**

Niphargus nicaeensis **sp. n.** Nice p. 65 figs., ISNARD Riviera scient. **3.**

Orchestria tucurauna p. 379 figs., CHILTON Ann. Mag. Nat. Hist. **3.**

Socarnopsis obesa **sp. n.** N. Atlantic p. 577, CHEVREUX Bull. Mus. Paris **1919.**

Talitrus alluaudi p. 228, GRÄVE Bonn Verh. nathist. Ver. **70.**

Trischizostoma longirostris **sp. n.** N. Atlantic p. 575, CHEVREUX Bull. Mus. Paris **1919.**

HYPERIIDEA.

Scina megameros N. Atlantic p. 1, *Alberti* Mediterranean p. 3, *pusilla* N. Atlantic p. 5, *inermis* N. Atlantic p. 7, **spp. n.** figs., CHEVREUX Bull. Inst. Océan. Monaco **352.**

CAPRELLIDEA

[Vacant.]

PHYLLOCARIDA.

†*Ceratiocaris* cf. *robusta* Palaeozoic, Tonkin p. 20 figs., MANSUY Mém. Serv. Géol. Indochine **3** fasc. 2.

BRANCHIOPODA.

PHYLLOPODA.

ZOGRAF **119.**

CLADOCERA.

ALMEROTH **1.**—BUYTENDYK **9.**—GREEN **47.**—GUTH **48.**—HARTMANN **50.**—HERWERDEN **57.**—JÄRNEFELT **60.**—VANDEL **107.**—DE LA VAULX **108.**—WUORENTAUS **117.**—YENDO **118.**

Notes and figs. of spp.; BRAVO Atti Soc. Ital. Milano **56** p. 261.

Acroperus avirostris p. 469, *sinuatus* p. 471, **spp. n.** N.S. Wales, figs., HENRY J. R. Soc. N.S. Wales **52.**

Alona wallaciana p. 472, *kendallenis* p. 474, *longirostris* p. 475, **spp. n.** N.S. Wales, figs., HENRY t.c.

Camptocercus australis var. n. *pavesii* Pavia p. 276 figs., BRAVO Atti Soc. Ital. Milano **56.**

Ceriodaphnia spinata **sp. n.** N.S. Wales p. 466 figs., HENRY J. R. Soc. N.S. Wales **52.**

Chydorus denticulatus p. 480, *clelandi* p. 481, **spp. n.** N.S. Wales figs., HENRY t.c.

Daphnia pulex p. 92, *spinulata* p. 93, figs., BIRABÉN Rev. Mus. La Plata **24,**

Diaphanosoma brachyurum p. 84 figs., BIRABÉN t.c.

Moina micrura p. 112, *platensis* p. 118 figs., BIRABÉN t.c.

Parasida variabilis p. 89 figs. BIRABÉN t.c.

Pleuroxus reticulatus **sp. n.** N.S. Wales p. 478 figs., HENRY J. R. Soc. N.S. Wales **52.**

Scapholeberis spinifera p. 100, figs., BIRABÉN Rev. Mus. La Plata **24.**

Simocephalus vetulus p. 106 *serrulatus* p. 109, figs., BIRABÉN t.c.

COPEPODA.

ALMEROTH **1.**—BYRNES **10.**—CAULLERY et MESNIL **15.**—CURRIE **36.**—VAN DOUWE **40.**—FASTEN **42.**—HERDMAN **55.**—HERDMAN and others **56.**—JANICKI and ROSEN **59.**—KESTEVEN **63.**—MRÁZEK **75.**

Acartia chilkaensis **sp. n.** Chilka Lake p. 9 figs., SEWELL Rec. Ind. Mus. **16.**

Acartiella gravelyi p. 10, *major* p. 13, *minor* p. 15, **spp. n.** India, figs., SEWELL t.c.

Alophytophilus gen. n. [see **1918**] p. 72, *fusiformis* sp. n. Quarto dei Mille p. 74 figs., BRIAN Atti Soc. ligust. **29.**

Cerviniopsis clavicornis p. 20, figs., SARS Crust. Norw. **7.**

Cyclops ceibaensis **sp. n.** Honduras p. 546 figs., MARSH Proc. U.S. Nat. Mus. **55.**

Ectinosoma proximum p. 23, *angulifrons* p. 24, figs., *tenerum*, *clavatum* pl. xvi figs. only, **spp. n.** Norway, SARS Crust. Norw. **7.**

Gloiopotes costatus **sp. n.** on swordfish, S. California, p. 313 figs., WILSON Proc. U.S. Nat. Mus. **55.**

Harpacticus uniremis larval stages p. 46 figs., BRIAN Atti Soc. Ital. Sci. Nat. **58.**

Lernaea insolens **nom. n.** for *anomala* Wilson *non* Abildgaard p. 316, WILSON Proc. U.S. Nat. Mus. **55.**

Lernaeopoda cluthae p. 316, WILSON t.c.—*L. mustelicola* **sp. n.** on *Mustelus* Plymouth p. 256, notes on other spp., figs., LEIGH-SHARPE Parasitol. **11.**

Nesippus, WILSON p. 315 Proc. U.S. Nat. Mus. **55.**

Paeon **gen. n.** (*Sphyriidae*) p. 590, *ferox* on *Scoliodon* N. Carolina p. 592, *versicolor* on *Mustelus* N. Carolina p. 596, **spp. n.** figs., WILSON t.c.

Paracartia grani p. 16 figs., SARS Crust. Norw. **7.**

Parastephos pallidus p. 6 figs., SARS t.c.

Periplexis **gen. n.** (*Sphyriidae*) p. 598, *lobodes* **sp. n.** on *Alepocephalus* New Jersey p. 599 figs., WILSON Proc. U.S. Nat. Mus. **55.**

Platycopia perplexa p. 11, *pygmaea* **sp. n.** p. 13, Norway, SARS Crust. Norw. **7.**

Psamathe longicauda larval stages p. 38 figs., BRIAN Atti Soc. Ital. Sci. Nat. **58.**

Pseudocyclopia giesbrechti p. 7, *crassicornis* p. 9, figs., SARS Crust. Norw. **7.**

Pseudocyclops crassiremis p. 14 figs., SARS t.c.

Pseudodiaptomus tollingeri p. 2, *annandalei* p. 5, **spp. n.** *binghami* p. 7, Chilka Lake, figs., SEWELL Rec. Ind. Mus. **16.**

Rebelula bouvieri p. 579, *cornuta* **sp. n.** on *Synaphobranchus* Japan p. 582, *gracilis* **sp. n.** on *Synaphobranchus* &c. New England p. 585, figs., WILSON Proc. U.S. Nat. Mus. **55.**

Specilligus p. 315, WILSON t.c.

Sphyriidae **fam. n.** for *Sphyrion* etc. p. 564, WILSON t.c.

Sphyrion lumpi p. 570 figs., WILSON t.c.

Stephos minor p. 4 figs., SARS Crust. Norw. **7.**

Sunaristes paguri p. 19 figs., SARS t.c.

Xanthocalanus minor p. 3 figs., SARS t.c.

Xenocoeloma brumpti, alleni, p. 170, figs., CAULLERY and MESNIL Bull. Biol. France Belgique **53.**

Zosime major p. 21, *valida* p. 22, **spp. n.** Norway, SARS Crust. Norw. **7.**

BRANCHIURA.

[Vacant.]

OSTRACODA.

†*Ostracoda*, HEDE **51.**

†*Aechmina bovina* p. 141 fig., HEDE Stockholm Geol. Fören. Förh. **41.**—*A. Grönwalli* **sp. n.** Sweden, Silurian, p. 52 figs., TROEDSSON Lund Univ. Årsskr. N.F. Avd. 2 **15** No. 3.

Aglaia obtusata (?) p. 71 fig., CHAPMAN Brit. Antarct. Exped. Geol. **2.**

†*Bairdia victrix* p. 49 fig., CHAPMAN t.c.

†*Beirichia bussacensis* var. n. *hispanica* Silurian, Spain p. 347 figs., BORN Abh. Senckenb. Ges. **36.**—*Beyrichia jonesi* p. 132, *maccoyiana* p. 133, *nodulosa* p. 134, *steusloffi* p. 135, figs., HEDE Stockholm Geol. Fören. Förh. **41.**

†*Bollia harparum, biplicata* **spp. n.** Sweden Silurian p. 55 figs., TROEDSSON Lund Univ. Årsskr. N.F. Avd. 2 **15** No. 3.

†*Bythocypris symmetrica* p. 142 fig., HEDE Stockholm Geol. Fören. Förh. **41.**

†*Candonocypris assimilis* p. 28 figs., CHAPMAN Proc. R. Soc. Victoria **32.**

Crossophorus grimaldii **sp. n.** N. Atlantic p. 1 figs., GRANATA Bull. Inst. Ocean. Monaco **356.**

†*Ctenobolbina sexpapillosa* p. 53 *rara* p. 54 **spp. n.** Sweden Silurian, figs., TROEDSSON Lund Univ. Årsskr. N.F. Avd. 2 **15** No. 3.

†*Cypridina ocevjana, balbersteinenis,* **spp. n.** Trias, Europe, p. 176 figs., KITTL in TRAUTH Wien Ann. Nat. Hofmus. **32.**

†*Cypris myiloides, sydneia,* p. 27, *tenuisculpta* **sp. n.** p. 28, figs., Pleistocene, Victoria, CHAPMAN Proc. R. Soc. Victoria **32.**

Cythere davisi **sp. n.** Ross Sea p. 72, *quadriaculeata* p. 73, figs., CHAPMAN Brit. Antarct. Exped. Geol. **2.**

†*Cythere foveolata, parallelogramma,* p. 38, *normani, polytrema,* p. 50, figs., CHAPMAN t.c.—*C. lubbockiana* p. 29 fig., CHAPMAN Proc. R. Soc. Victoria **32.**

†*Cytherideis laevata* p. 39 fig., CHAPMAN Brit. Antarct. Exped. Geol. **2.**

†*Cytheropteron antarcticum* **sp. n.** raised beach, Drygalski glacier p. 38 figs., CHAPMAN t.c.

Cytherura obliqua p. 73, *rudis* p. 74 figs., CHAPMAN t.c.

†*Cytherura costellata* p. 51 fig., CHAPMAN t.c.

†*Entomis variostriata, serratostriata*, p. 7, *brookei* **sp. n.** Devonian, Canada p. 8, figs., KINDLE Ottawa Dept. Mines Mus. Bull. **29.**

†*Jonesina rectangularis* **sp. n.** Sweden Silurian p. 56 fig., TROEDSSON Lund Univ. Årsskr. N.F. Avd. 2 **15** No. 3.

†*Leperditia tonkinensis* **sp. n.**, *cf. angelini*, Palaeozoic, Tonkin p. 19 figs., MANSUY Mém. Serv. Géol. Indochine **3** fasc. 2.—*L.* cf. *phaseolus* p. 131 fig., HEDE Stockholm Geol. Fören. Förh. **41.**

†*Limnicythere sicula* **sp. n.** Pleistocene, Victoria, p. 29 figs., CHAPMAN Proc. R. Soc. Victoria **32.**

†*Loxoconcha mawsoni* **sp. n.** raised beach, Mt. Erebus p. 50 figs., CHAPMAN Brit. Antarct. Exped. Geol. **2.**

†*Macrocypris vinei* p. 140 fig., HEDE Stockholm Geol. Fören. Förh. **41.**

Pontocypris faba (?) p. 71 figs., CHAPMAN Brit. Antarct, Exped. Geol. **2.**

†*Pontocypris subreniformis* p. 37 fig., CHAPMAN t.c.

†*Primitia cristata, mundula*, p. 137, *valida* p. 138, figs., HEDE Stockholm Geol. Fören. Förh. **41.**—*P. harparum* p. 48, *conica* p. 49, **spp. n.**, *bursa* var. n. *scanensis*, *P.* (?) *biloba* **sp. n.**, p. 51, Sweden Silurian figs., TROEDSSON Lund Univ. Årsskr. N.F. Avd. 2 **15** No. 3.

†*Thlipsura v.-scripta* var. *discreta* p. 139 fig., HEDE Stockholm Geol. Fören. Förh. **41.**

Xestoleberis variegata, setigera, p. 73, figs., CHAPMAN Brit. Antarct. Exped. Geol. **2.**

†*Xestoleberis davidiana* p. 51, figs., CHAPMAN t.c.

CIRRIPEDIA.

†*Lepidocoleus* sp. p. 23 fig., HEDE Sveriges Geol. Unders. Årsbok **11** No. 2.

Megalasma (*Megalasma*) *minus* p. 362, (*Glyptelasma*) *gigas* p. 364, *pilsbryi* **sp. n.** Java-Australia p. 365 figs., *orientale* **sp. n.** Java-Australia p. 367, figs., *hamatum* **sp. n.** Atlantic and Indo-Pacific p. 370 figs., CALMAN Ann. Mag. Nat. Hist. **4.**

XI. ARACHNIDA

TO WHICH ARE ADDED

GIGANTOSTRACA (XIPHOSURA, TRILOBITA, EURYPTERIDA), PANTOPODA, TARDIGRADA, PENTASTOMIDA, MYRIOPODA and PROTOTRACHEATA

ARRANGED BY

W. T. CALMAN, D.Sc., F.R.S.

CONTENTS.

PAGE

Gigantostraca.

I. TITLES=2800 4

II. SUBJECT-INDEX=2803–2827.. 5

III. SYSTEMATIC INDEX=2831:—

Trilobita 6

Xiphosura, etc. 7

Eurypterida 7

Pantopoda.

I. TITLES=2800 8

II. SUBJECT-INDEX=2803–2827 8

III. SYSTEMATIC INDEX=2831 8

PAGE

Arachnida (incl. Tardigrada and Pentastomida).

I. Titles=3000 9

II. Subject-Index=3003–3027 :—

General, Economics 12
Structure 12
Physiology 12
Development.. 12
Ethology 13
Variation and Aetiology 13
Distribution (Geographical) 13

III. Systematic Index=3031 :—

General (vacant).
Scorpiones 14
Pedipalpi 14
Palpigradi (vacant).
Araneae 14
Avicularidae 14
Uloboridae 15
Dictynidae.. 15
Prodidomidae 15
Drassidae 15
Palpimanidae 15
Zodariidae.. 15
Hersiliidae 15
Pholcidae 16
Theridiidae 16
Argiopidae 16
Archaeidae 17
Thomisidae 17
Clubionidae 17
Agelenidae 17
Pisauridae.. 18
Lycosidae 18
Salticidae 18
Solifugae 18
Pseudoscorpiones 18
Opiliones 18
Ricinulei, etc. (vacant).

PAGE

Acari 18

Oribatidae, etc. 18
Gamasidae. 18
Ixodidae and Argasidae 20
Trombidiidae, etc. 20
Hydrachnidae 20
Halacaridae 21
Bdellidae (vacant).
Sarcoptidae 21
Tyroglyphidae 22
Demodicidae 22
Eriophyidae 22

Tardigrada 22

Pentastomida (vacant).

Myriopoda.

I. Titles=3400 23

II. Subject-Index=3403–3427 :—

General (vacant).
Structure 24
Physiology (vacant).
Development (vacant).
Ethology 24
Variation and Aetiology (vacant).
Distribution (Geographical and geological) 24

III. Systematic Index=3431 :—

Chilopoda 25
Symphyla 25
Pauropoda (vacant).
Diplopoda 25

Prototracheata (vacant).

GIGANTOSTRACA.

I.—TITLES.

Born, A. Zur Organisation der Trilobiten. Frankfurt Senckenbergiana **1** 1919 (159–171) text-figs. **1**

Born, A. Die *Calymene Tristani*-Stufe (mittleres Untersilur) bei Almaden, ihre Fauna, Gliederung und Verbreitung. Frankfurt Abh. Senckenb. Ges. **36** 1918 (311–358) pls. xxiv–xxvii. **2**

Calman, W. T. Dr. C. D. Walcott's researches on the appendages of Trilobites. Geol. Mag. London Dec. vi **6** 1919 (359–363) pl. viii text-fig. **3**

Etheridge, R. The Cambrian Trilobites of Australia and Tasmania. Adelaide Trans. R. Soc. S. Austral. **43** 1919 (373–393) pls. xxxix and xl. **4**

Foerste, A. F. Silurian fossils from Ohio, with notes on related species from other horizons. Ohio Nat. Columbus **19** 1919 (367–404) pls. xvi–xix text-figs. **5**

Foerste, A. F. Notes on *Isotelus*, *Acrolichas*, *Calymene* and *Encrinurus*. Bull. Sci. Lab. Denison Univ. Granville Ohio **19** 1919 (65–81) pls. xiv–xviii. **6**

Hede, J. C. Faunan i kalksandstenens märgliga bottenlager söder om Klintehamn på Gottland. Stockholm Sveriges Geol. Unders. Årsbok **11** 1917 No. 2 (Ser. C. No. 281) (32 pp.) 2 pls. **7**

Hede, J. E. Om en förekomst af colonusskiffer vid Skarhult i Skåne. Stockholm Geol. Fören. Förh. **41** 1919 (113–154) pls. i v–vi. **8**

Lake, P. A monograph of the British Cambrian Trilobites. Part V. London Palaeontogr. Soc. **1917** 1919 (89–120) pls. xi–xiv. **9**

Mansuy, H. Faunes cambriennes du Haut-Tonkin. Mém. Serv. Géol. Indochine **4** fasc. 2 1915 (35 pp.) 3 pls. **10**

Mansuy, H. Contribution à l'étude des faunes de l'Ordovicien et du Gothlandien du Tonkin. Mém. Serv. Géol. Indochine **4** fasc. 3 1915 (22 pp.) 3 pls. **11**

Mitchell, J. The Carboniferous Trilobites of Australia. Sydney Proc. Linn. Soc. N.S.W. **43** 1918 (437–494) pls. xlvi–liii. **12**

Mitchell, J. On two new Trilobites from Bowning. Sydney Proc. Linn. Soc. N.S.W. **44** 1919 (441–449) pls. xv and xvi. **13**

Richter, R. Von unseren Trilobiten. Frankfurt Ber. Senckenb. Ges. **45** 1914 (49*–62*) text-figs. **14**

Richter, R. Von Bau und Leben der Trilobiten. I. Das Schwimmen. Frankfurt Senckenbergiana **1** 1919 (213–238) text-figs. **15**

Richter, R. and E. Der Proetiden-Zweig *Astycoryphe- Tropidocoryphe-Pteroparia*. Frankfurt Senckenbergiana **1** 1919 (1–17, 25–51) text-figs. **16**

Richter, R. and E. Proetiden aus neueren Aufsammlungen im vogtländischen und sudetischen Oberdevon. Frankfurt Senckenbergiana **1** 1919 (97–130) text-figs. **17**

Richter, R. and E. Über *Phacops laevis* Münst. und andere Phacopiden des vogtländischen Oberdevons. Frankfurt Senckenbergiana **1** 1919 (131–140) text-figs. **18**

Richter, R. and E. Von unsern Trilobiten. II. Eine überraschende Trilobitenfauna aus dem Eifeler Devon. Frankfurt Ber. Senckenb. Ges. **47** 1918 (123–131) 3 pls. **19**

Richter, R. and E. Über die Einteilung der Familie Acidaspidae und über einige ihrer devonischen Vertreter. (Vorläufige Mitteilung.) Centrabl. Min. Stuttgart **1917** 1917 (462–472) text-figs. **20**

Sjöberg, S. Beschreibung einer neuen Trilobiten-Art aus dem schwarzen Trinucleus - schiefer Östergötlands. Stockholm Geol. Fören. Förh. **40** 1918 (457–460) pl. vii. **21**

Swinnerton, H. H. The facial suture of Trilobites. Geol. Mag. London Dec. vi **6** 1919 (103–110) text-figs. **22**

Versluys, J. Die Kiemen von *Limulus* und die Lungen der Arachniden. Amsterdam Bydr. Dierk. **21** 1919 (41–48) text-figs. **23**

II.—SUBJECT INDEX.

N.B.—The number in Clarendon, when not referring to a Volume, refers to the list of Titles.

GENERAL = 2803-2823.

General account of *Trilobita*; **Richter, 14**: Morphology and affinities of *Trilobita*; **Calman, 3.**

Facial suture, *Trilobita*; **Swinnerton, 22**: Muscle-attachments in head of *Trilobita*; **Born, 1.**

Gills of *Limulus*; **Versluys, 23.**

Swimming of *Trilobita*; **Richter, 15.**

Evolution, *Trilobita*; **Richter, 16.**

DISTRIBUTION = 2827.

(Geological.)

Cambrian.

Britain, *Trilobita*; **Lake, 9**: Tonkin, *Trilobita*; **Mansuy, 10**: Australia and Tasmania, *Trilobita*; **Etheridge, 4.**

Ordovician.

Sweden, *Trilobita*; **Sjöberg, 21**: Ohio, *Trilobita*; **Foerste, 6.**

Ordovician and Gothlandian, Tonkin, *Trilobita*; **Mansuy, 11.**

Silurian.

Sweden, *Trilobita*, *Eurypterida*; **Hede, 7**: Sweden, *Trilobita*; **Hede, 8**: Spain, *Trilobita*; **Born, 2**: Ohio, *Trilobita*; **Foerste, 56**: N.S. Wales, *Trilobita*; **Mitchell, 13.**

Devonian.

Germany, *Trilobita*; **Richter, 16-20**: N.S. Wales, *Trilobita*; **Mitchell, 13.**

Carboniferous.

Australia, *Trilobita*; **Mitchell, 12.**

III.—SYSTEMATIC INDEX = 2831

N.B.—The number in Clarendon type, when not that of a Volume, refers to the list of Titles.

†TRILOBITA.

BORN **1.**—CALMAN **3.**—RICHTER **14, 15, 19.**—SWINNERTON **22.**

Acidaspis (*Ceratocephala*?) *sandbergeri* **sp. n.** Devonian Wiesbaden p. 467 figs., RICHTER Centralbl. Min. **1917.**

Acrolichas **gen. n.** type *Lichas cucullus* Meek and Worthen p. 402, FOERSTE Ohio Nat. **19.**—*A. shideleri* **sp. n.** Ordovician, Ohio, p. 73 figs., FOERSTE Bull. Sci. Lab. Denison Univ. **19.**

Adastocephalum **gen. n.** (*Phacopinae*) p. 446, *teleotypicum* **sp. n.** Devonian N.S. Wales p. 447 figs., MITCHELL Proc Linn. Soc. N.S.W. **44.**

Agraulos tonkinensis **sp. n.** Cambrian, Tonkin p. 19 figs., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 2.

Angelina sedgwicki p. 112 figs., LAKE Brit. Camb. Trilobites.

Anomocare cf. *subquadratum* p. 26 fig., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 2.

Asaphus nobilis var. n. *caudiculatus* p. 354 figs., BORN Abh. Senckenb. Ges. **36.**

Astycoryphe **gen. n.** p. 2, *senckenbergiana* p. 3, *gracilis* p. 11, *westfalica* **sp. n.** Devonian, Germany p. 14, *nováki* p. 14, *brilonensis* **sp. n.** Devonian, Germany p. 16, *champernowni* p. 16, figs., RICHTER Senckenbergiana **1.**

Beltella **gen. n.** near *Olenus* p. 102, *depressa* p. 104, *bucephala* p. 106, *verisimilis* p. 107, figs., LAKE Brit. Camb. Trilobites.

Blackwelderia sinensis, p. 10, *cilix* p. 11, *alastor* p. 12, *speciosa* **sp. n.** p. 13, Cambrian Tonkin, figs., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 2.

Brachymetopus dunstani **sp. n.** Carboniferous, Australia p. 486 figs., MITCHELL Proc. Linn. Soc. N.S.W. **43.**

Bumastus cf. *ioxus* p. 386 fig., FOERSTE Ohio Nat. **19.**

Calymene Tristani p. 348 figs., BORN Abh. Senckenb. Ges. **36.**—*C. abbreviata* p. 74, *retrorsa* var *minuens* p. 76, *niagarensis, breviceps,* p. 78, *cedarvillensis* **sp. n.** Silurian, Ohio p. 78, figs., FOERSTE Bull. Sci. Lab. Denison Univ. **19.**—*C. whittakeri* **sp. n.** Silurian, Ohio p. 393, cf. *vogdesi* p. 393, figs., FOERSTE Ohio Nat. **19.**—*Calymmene intermedia* p. 142 figs., HEDE Stockholm Geol. Fören. Förh. **41.**

Ceraurinus cf. *trentonensis* p. 396 fig., FOERSTE Ohio Nat. **19.**

Chaunoproetus **subg. n.** of *Proetus* (q.v.) p. 117, RICHTER Senckenbergiana **1.**

Cheirurus claviger var. *marianus* p. 351 figs., BORN Abh. Senckenb. Ges. **36.**

Chuangia nais p. 20 figs., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 2.

Coosia deprati **sp. n.** Cambrian, Tonkin p. 27 figs., MANSUY t.c.

Ctenopyge directa **sp. n.** Cambrian, Britain p. 89 figs., LAKE Brit. Camb. Trilobites.

Cyphaspis sp. p. 143 fig., HEDE Stockholm Geol. Fören. Förh. **41.**

Cyrtosymbole planilimbata **sp. n.** p. 103, spp. a, b, c, p. 104, Devonian, Germany, figs., RICHTER Senckenbergiana **1.**

Dalmanites macrophthalmus p. 352 figs., BORN Abh. Senckenb. Ges. **36.**—*D. brevigladiolus* **sp. n.** Silurian, Ohio p. 401, cf. *verrucosus* p. 402, figs., FOERSTE Ohio Nat. **19.**—*D.* (*Hausmannia*) *loomesi* **sp. n.** Silurian and ? Devonian N.S. Wales, p. 441 figs., MITCHELL Proc. Linn. Soc. N.S.W. **44.**

Damesella dongvanensis **sp. n.** p. 13, *breviceps* **sp. n.** p. 17, *blackwelderi* p. 17, Cambrian, Tonkin, figs., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 2.

Dikelocephalina furca p. 118 figs., LAKE Brit. Camb. Trilobites.

Dikelocephalus discoidalis p. 115, *celticus* p. 116, figs., LAKE t.c.

Dolichometopus ? p. 28 figs., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 2.

Drepanura ? p. 18 fig., MANSUY t.c.

Drevermannia aff. *brecciae* p. 107, sp. c. p. 108, *carnica* var. n. *macilenta* p. 109, figs., RICHTER Senckenbergiana **1.**

Encrinurus cf. *ornatus* p. 391 figs., FOERSTE Ohio Nat. **19.**—*E. ornatus* p. 79, *hillsboroensis* **sp. n.** Silurian, Ohio p. 80, FOERSTE Bull. Sci. Lab. Denison Univ. **19.**

Eurycare sp. p. 94 figs., LAKE Brit. Camb. Trilobites.

Griffithides convexicaudatus **sp. n.** Carboniferous, Australia p. 475, *sweeti* p. 479, figs., MITCHELL Proc. Linn. Soc. N.S.W. **43.**

Helioproetus **subg. n.** of *Proetus* (q.v.) p. 119, RICHTER Senckenbergiana **1.**

Illaenurus ? p. 29 fig., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 2.

Illaenus giganteus p. 355, *Beaumonti* p. 356, figs., BORN Abh. Senckenb. Ges. **36.**

Isotelus brachycephalus **sp. n.** Ordovician, Ohio p. 65 figs., FOERSTE Bull. Sci. Lab. Denison Univ. **19.**

Leonaspis **subg. n.** of *Acidaspis*, type *A. leonhardi* Barr. p. 465 fig., RICHTER Centralbl. Min. **1917.**

Leptoplastus salteri p. 90 figs., LAKE Brit. Camb. Trilobites.

Lichas cf. *avus* p. 356, *L.* sp. p. 357, figs., BORN Abh. Senckenb. Ges. **36.**

Menocephalus sp. ? p. 22 fig., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 2.

Miraspis subg. n. of *Acidaspis* type *A. mira* Barr. p. 466 fig., RICHTER Centralbl. Min. **1917.**

Niobe cunctatrix **sp. n.** Ordovician Sweden p. 458 figs., SJÖBERG Stockholm Geol. Fören. Förh. **40.**

Parabolinella simplex p. 110 fig., LAKE Brit. Camb. Trilobites.

Peltura scarabaeoides p. 97, *punctata* p. 99, *olenoides* p. 100, figs., LAKE t.c.

Phacops (*Portlockia*) *mancus* **sp. n.** Silurian, Ohio p. 399 fig., FOERSTE Ohio Nat. **19.**—*P. laevis* p. 133, *caecus* p. 135, *cryptophthalmus* p. 136, spp. a, b, p. 136, figs., RICHTER Senckenbergiana **1.**

Phaetonides rugulosus p. 26 fig., HEDE Sveriges Geol. Unders. Årsbok **11** No. 2.

Phillipsia collinsi p. 444, *coulteri* p. 447, *breviceps* p. 449, *proxima*, *robusta*, p. 451, *stroudensis* p. 453, *superba* p. 454, *waterhousei* p. 455, *elongata* p. 456, *rockhamptonensis* p. 459, *stanvellensis* p. 461, *morganensis* p. 471, *connollii* p. 472, *rouchelensis* p. 473, *dungogensis* p. 474, **spp. n.** Carboniferous, Australia, *grandis* p. 463, *woodwardi* p. 465, figs., MITCHELL Proc. Linn. Soc. N.S.W. **43.**

Placoparia Tourneminei p. 347 figs., BORN Abh. Senckenb. Ges. **36.**

Platycorphe **gen. n.** type *Calymene christyi* Hall p. 394, *dubius* p. 395, figs., FOERSTE Ohio Nat. **19.**

Primaspis **subg. n.** of *Acidaspis*, type *A. primordialis* Barr. p. 466 fig., RICHTER Centralbl. Min. **1917.**

Proetus undulostriatus p. 386, *parviusculus* p. 387, *determinatus*, *princeps*, p. 389, *collinodosus* **sp. n.** Silurian, Ohio p. 390, figs., FOERSTE Ohio Nat. **19.**—*P. conspersus* p. 143 figs., HEDE Stockholm Geol. Fören. Förh. **41.**—*P.* sp. p. 15 fig., MANSUY Mém. Serv. Geol. Indochine **4** fasc. **3.**—*P.* (*Chaunoproetus*) *palensis* p. 118, sp. a. p. 119 (*Helioproetus*) *ebersdorfensis* p. 121, *oblongulus* **sp. n.** p. 122, (subg. ?) *gümbeli* p. 123, **var. n.** *abruptirhachis* p. 124, *franconicus* **sp. n.** p. 126, *avitus* **sp. n.** p. 128, Devonian, Germany, figs., RICHTER Senckenbergiana **1.**

Pseudomonaspis **subg. n.** of *Acidaspis*, type *A. brighti* Murch. p. 466 fig., RICHTER Centralbl. Min. **1917.**

Pteroparia columbella p. 43 fig., RICHTER Senckenbergiana **1.**

Pterygometopus confluens **sp. n.** Silurian, Ohio p. 396, *achates* p. 397, *carleyi-rogersensis* p. 398, figs., FOERSTE Ohio Nat. **19.**

Ptychaspis walcotti p. 22, *angulata* p. 25, **spp. n.** Cambrian, Tonkin, figs., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 2.

Ptychoparia (?) *tatei* p. 382, *subsagittatus* p. 383, (?) *australis* p. 384, *howchini* p. 385, *abroinensis* **sp. n.** Northern Territory p. 385, (?) *carolinensis* **sp. n.** Tasmania p. 391, (?) *johnstoni* **sp. n.** Tasmania p. 392, *tasmaniensis* **sp. n.** Tasmania p. 392, Cambrian, figs., ETHERIDGE Trans. R. Soc. S. Austral. **43.**—*P.* ? p. 18 figs., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 2.

Radiaspis **subg. n.** of *Acidaspis*, type *A. radiata* Goldfuss p. 466 figs., RICHTER Centralbl. Min. **1917.**

Shumardia cf. *granulosa* p. 9 fig., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 2.

Skemmatopyge **gen. n.** p. 114, *tietzei* **sp. n.** Devonian, Germany p. 115 figs., RICHTER Senckenbergiana **1.**

Stephanocare richthofeni p. 10 figs., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 2.

Trimerocephalus griffithides **sp. n.** Devonian, Germany p. 137 figs., RICHTER Senckenbergiana **1.**

Trinucleus ornatus p. 4 figs., MANSUY Mém. Serv. Géol. Indochine **4** fasc. 3.

Tropidocoryphe barroisi p. 26, varr. *a* and *b* p. 34, *filicostata* p. 35, *latens* p. 39, *memnon* p. 41, *heteroclyta* p. 42, figs., RICHTER Senckenbergiana **1.**

Typhloproetus schindewolfi **sp. n.** Devonian, Germany p. 111 fig., RICHTER t.c.

XIPHOSURA, ETC.

VERSLUYS **23.**

†EURYPTERIDA.

VERSLUYS 23

Pterygotus sp. p. 27 fig., HEDE Sveriges Geol. Unders. Årsbok **11** No. 2.

PANTOPODA.

I.—TITLES.

Flynn, T. T. Two new Australian Pycnogonida. Hobart Proc. R. Soc. Tasmania **1918** 1919 (91–100) pls. xiii and xiv. **1**

Flynn, T. T. A re-examination of Professor Haswell's types of Australian Pycnogonida. Hobart Proc. R. Soc. Tasmania **1919** 1919 (70–92) pls. xviii–xxii. **2**

II.—SUBJECT INDEX = 2803—2837.

Australia, Tasmania ; **Flynn, 1, 2.**

III.—SYSTEMATIC INDEX. = 2831.

Achelia assimilis p. 87 figs., Flynn Proc. R. Soc. Tasmania **1919.**

Ammothea australiensis **sp. n.** Port Jackson p. 95 figs., Flynn op. cit. **1918.**

Anoplodactylus tubiferus p. 79 figs. Flynn op. cit. **1919.**

Ascorhynchus longicollis p. 81 figs., Flynn t.c.

Nymphon aequidigitatum p. 72 figs., Flynn t.c.

Nymphopsis armatus p. 84 figs., Flynn t.c.

Pallene (?) *valida,* p. 75 figs., Flynn t.c.

Pseudopallene pachycheira p. 77 figs., Flynn t.c.

Pycnogonum aurilineatum **sp. n.** Tasmania p. 92 figs., Flynn op. cit. **1918.**

Rhopalorhynchus tenuissimus p. 71 figs., Flynn op. cit. **1919.**

ARACHNIDA

(INCL. TARDIGRADA & PENTASTOMIDA)

CONTENTS (*see* p. 2)

I.—TITLES.

Barrows, W. M. The taxonomic position of *Mysmena bulbifera* (*Glenognatha bulbifera*) Banks, with some observations on its habits. Ohio Nat. Columbus **19** 1919 (210–212) text-figs. **1**

Barrows, W. M. New Spiders from Ohio. Ohio Nat. Columbus **19** 1919 (355–360) pl. xv. **2**

Bastert, C. *vide* Willem, V.

Berland, L. Diagnoses préliminaires d'Araignées d'Afrique orientale. Voyage de Ch. Alluaud et R. Jeannel. (1re note). Paris Bull. Soc. Ent. **1919** 1919 (347–350) text-figs. **3**

Berland, L. Note sur le peigne métatarsal que possèdent certaines Araignées de la famille des Drassidae. Bull. Mus. Hist. Nat. Paris **1919** 1919 (458–463) text-figs. **4**

Berlese, A. Intorno agli Uropodidae. Redia Firenze **13** 1918 (7–16). **5**

Berlese, A. Sul *Liponyssus natricis* (Gerv.) e su altri Dermanissidi dei Rettili. Redia Firenze **13** 1918 (55–71) pl. iii. **6**

Berlese, A. Su una nuova specie di Trombidide appartenente ad un nuovo genere supposta parassita, allo stato di larva, delle Cavallette, in Puglia. Redia Firenze **13** 1918 (93–97 and 199) pl. iv. **7**

Berlese, A. Centuria quarta di Acari nuovi. Redia Firenza **13** 1918 (115–190) text-fig. **8**

Berlese, A. *vide* Trouessart, E.

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II.—SUBJECT-INDEX.

N.B.—The number in Clarendon, when not that of a Volume, refers to the list of Titles.

GENERAL, ECONOMICS. 3003.

General.

Methods of study, *Eriophyidae*; **Nalepa, 49.**

Economics (see also Parasitism).

Poison of *Mastigoproctus* (*Pedip*); **Howard, 38.**

Chigger-mites (*Trombid.*) of man and animals; **Ewing** and **Hartzell, 23**: Transmission of *Sarcoptes* from animals to man; **Frisch, 29**: *Demodex* in man and animals; **Hirst, 36**: *Ixodes* on conjunctiva of man; **Killerich, 39**: *Sarcoptes* in man; **Munro, 48**: Tsutsugamushi disease (*Trombicula*); **Hatori, 31**: Akamushi, Transmission of disease by *Acari*; **Teodoro, 61.**

Cattle - fever tick, *Margaropus* (*Ixod.*); **Ellenberger** and **Chapin, 19**: *Sarcoptes* on horse; **Hansen, 30**: Fowl tick, *Argas* (*Ixod.*); **Bishopp, 9.**

Acari destructive to agric. in Dutch East Indies; **Dammerman, 18**: Milbenangriffe auf Tee, Kina; **Bernard, Kerbosch, 8a.**

Red Spiders (*Tetranychidae*); **McGregor, 43**: Bulb-mite (*Rhizoglyphus*); **Yagi, 75.**

STRUCTURE. 3007.

Solifugae; **Hewitt, 34**: *Demodex*; **Hirst**: *Tardigrada*; **Loman, 42.**

Metatarsal comb, *Drassidae*; **Berland, 4.**

Lungs of Arachnida; **Versluys, 66.**

Sexual dimorphism, *Opiliones*; **Müller, 46.**

PHYSIOLOGY. 3011.

Movements of heart and respiration *Araneae*; **Willem, 73**: of heart, *Araneae*; **Willem & Bastert, 74.**

DEVELOPMENT. 3015.

Post-embryonal dev., *Hydrachnidae*; **Wesenberg-Lund, 72.**

ETHOLOGY. 3019.

General.

Habits, etc., *Araneae*; **Nielsen, 51**: S. Indian *Araneae*; **Sherriffs, 57**: *Glenognatha* (*Argiop.*); **Barrows, 1.**

Breeding Habits, etc.

Behaviour of sexes, *Ixodidae*; **Nuttall, 52.**

Egg-case of (?) *Cyrtarachne* (*Argiop.*); **Rodman, 56.**

Habitats.

Cavernicolous, *Troglohyphantes* (*Argiop.*); **Fage,**

Parasitism and Symbiosis (see also Economics).

On Mammals, *Demodex*; **Hirst, 36**: *Sarcoptidae*; **Hirst, 37.**

On Birds, *Sarcoptidae*; **Trouéssart, 62, 63.**

On Reptiles, *Gamasidae*; **Berlese, 6.**

Demodex in fish; **Merk, 45.**

On Insects, *Trombidiidae*; **Berlese, 7.**

Myrmecophilous *Acari*; **Vitzthum, 67.**

Plant galls *vide Eriophyidae.*

Miscellaneous.

Use of metatarsal comb, *Drassidae*; **Berland, 4.**

Flight of young *Araneae*; **Emerton, 20.**

Weighted spiders' webs; **Bryk, 11.**

VARIATION AND AETIOLOGY. 3023.

Phylogeny *Arachnida*; **Versluys, 66.**

Teratology. Double monsters in embryos of *Euscorpius*; **Brauer, 10.**

DISTRIBUTION.

GEOGRAPHICAL 3027.

General.

Distrib. *Uropodidae*; **Berlese, 5**: Many new records of *Acari*; **Berlese, 8**: Distrib. and Records of *Prodidomidae*; **de Dalmas, 16**: Records, *Leptodrassus* and related genera; **de Dalmas, 17.**

Europe and Mediterranean Islands. *d*

Denmark, Furesø, *Hydrachnida*; **Wesenberg-Lund, 71.**

Russia, Don region, *Araneae*; **Spassky, 59.**

Germany, Frankfurt, *Opiliones*; **Müller, 47**: Weimar, *Acari*; **Vitzthum, 67.**

British Islands, *Oxus* (*Hydrach.*); **Soar, 58**: England, *Araneae*; **Falconer, 26**: *Sarcoptidae*; **Hirst, 37**: Yorkshire, Araneae; **Falconer, 25**: Scarborough, *Eriophyidae*; **Falconer, 28**: Staffordshire, *Araneae, Opiliones, Pseudoscorpiones*; **Carr, 12**: Wicken Fen, *Araneae*; **Falconer, 27**: Denbigh, *Erophyidae*; **Dallman, 15.**

France, Jura, *Hydrachnidae*; **Vandel, 65.**

France, Spain, Italy, Carniola, etc. *Troglohyphantes*; **Fage, 24.**

Italy, *Gamasidae*; **Berlese, 6**: *Trombidiidae*; **Berlese, 7**: *Uropodidae*; **Berlese, 64.**

Switzerland, *Halacaridae*; **Walter, 70.**

Asia and Malay Archipelago. *e*

China, *Hydrachnidae*; **Marshall, 44.**

India, *Scorpiones*; **Henderson, 32**: S. India, *Araneae*; **Sherriffs, 57.**

Malay Archipelago, *Sarcoptidae*; **Trouessart, 63**: Java, *Eriophyidae*; **Nalepa, 50**: Borneo, *Sarcoptidae*; **Trouessart, 64.**

Africa and Madagascar. *f*

E. Africa, *Araneae*; **Berland, 3.** Kilimanjaro-Meru dist., *Thomisidae*; **de Lessert, 41.**

S. Africa, *Solifugae, Araneae*; **Hewitt, 33, 35**: *Solifugae*; **Hewitt, 34**: Natal, *Sarcoptidae*; **Hirst, 37.**

Madagascar, *Sarcoptidae*; **Trouessart, 63.**

North America. *g*

Araneae; **Emerton, 21**: *Tetranychidae* (*Tromb.*); **McGregor, 43.**

Western U.S. *Araneae*; **Chamberlin, 14.**

Wisconsin, *Hydrachnidae*; **Marshall,**

Ohio, *Araneae*; **Barrows, 2.**

Central and South America and W. Indies. *h*

Centr. and S. America, *Micrathena* (*Argiop.*); **Reimoser, 55**: S. Amer., *Hydrachnidae*; **Marshall, 44**: *Tetranychidae* (*Tromb.*); **McGregor, 43.**

Panama, *Solifugae*; **Chamberlin, 13.**

Surinam, *Hydrachnida*; **Walter, 68.**

Brazil and Peru, *Hydrachnidae, Halacaridae*; **Walter, 69**: S. Paulo, *Araneae*; **Leitão, 40.**

Australasia. *i*

New Guinea, Australia, New Zealand, Polynesia, *Sarcoptidae*; **Trouessart, 63**: Papua and Polynesia, *Araneae*; **Strand, 60.**

Australia, *Sarcoptidae*; **Trouessart, 64**: S. Australia, *Avicularidae*; **Pulleine, 54.**

Arctic. *k*

North-east Greenland, *Araneae*; **Emerton, 22.**

GEOLOGICAL.

[Vacant.]

III.—SYSTEMATIC. 3031.

N.B.—The number in Clarendon, when not that of a Volume, refers to the list of Titles.

SCORPIONES.

BRAUER **10.**

Lychas albimanus **sp. n.** Cochin p. 379 figs., HENDERSON Rec. Ind. Mus. Calcutta **16.**

Palamnaeus tristis **sp. n.** India p. 380 figs., HENDERSON t.c.

PEDIPALPI.

HOWARD **38.**

PALPIGRADI.

[Vacant.]

ARANEAE.

BRYK **11.**—CARR **12.**—EMERTON **20.**—FALCONER **25, 27.**—NIELSEN **51.**—RODMAN **56.**—SHERRIFFS **57.**—SPASSKY **59.**—WILLEM **73.**—WILLEM ET BASTERT **74.**

AVICULARIIDAE.

Acanthodon (*Gorgyrella*) *hirschhorni* **sp. n.** Rhodesia p. 203, HEWITT Rec. Albany Mus. **3.**—*A. monticoloides* p. 67, *gracilipes* p. 68, *hirsutus* p. 69, *nigropilosus* p. 70 figs., *mossambicus* p. 72, *hepburni* p. 73, **spp. n.** S. Africa, HEWITT Ann. Transvaal Mus. **6.**

Aganippe rainbowi **sp. n.** S. Australia p. 74 figs., PULLEINE Trans. R. Soc. S. Austral. **43.**

Ceratogyrus brachycephalus p. 103, *dolichocephalus* p. 104, **spp. n.** S. Africa, figs., HEWITT Ann. Transvaal Mus. **6.**

Conothele ferox p. 183 figs., STRAND Abh. Senckenb. Ges. **36.**

Evagrus caffer var. *australis* p. 95 figs., HEWITT Ann. Transvaal Mus. **6.**

Galeosoma mossambicum **sp. n.** p. 78, *planiscutum* **sp. n.** p. 79, *vandami* var. n. *circumjunctum* p. 80, *pluripunctatum* **sp. n.** p. 81. *coronatum* var. n. *spheroideum* p. 82, *robertsi* var. n. *crinitum* p. 82, S. Africa, HEWITT t.c.—*G. pilosum* p. 206 figs., HEWITT Rec. Albany Mus. **3.**

Idiops pulloides **sp.n.** S. Africa p. 205 figs. HEWITT t.c.

Idiothele **gen. n.** (*Barychelinae*) p. 96, *nigrofulvus* p. 98, *pluridentatum* **sp. n.** S. Africa p. 101, figs., HEWITT Ann. Transvaal Mus. **6.**

Moggridgea pseudocrudeni **sp. n.** S. Africa p. 210, *crudeni* p. 212, HEWITT Rec. Albany Mus. **3.**

Pelmatorycter brevicornis **sp. n.** Transvaal p. 209, HEWITT t.c.—*P. breyeri* p. 91 fig., *tookei* p. 92, **spp. n.** S. Africa, HEWITT Ann. Transvaal Mus. **6.**

Poecilotheria uniformis p. 189, STRAND Abh. Senckenb. Ges. **36.**

Pterinochilus breyeri **sp. n.** S. Africa p. 102, HEWITT Ann. Transvaal Mus. **6.**

Selenocosmia (*Phlogiellus*) *inermis* p. 183 figs., *bicolor* p. 184 figs., *lyra* p. 185, *deliana* p. 186, *strubelli* p. 187, *hirtipes* p. 188, STRAND Abh. Senckenb. Ges. **36.**

Spiroctenus marleyi p. 83, *spinipalpis* p. 84, *londinensis* p. 86, *curvipes* p. 88, **spp. n.** S. Africa, figs., HEWITT Ann. Transvaal Mus. **6.**

Stasimopus nigellus p. 93, *tysoni* **sp. n.** S. Africa p. 93, HEWITT t.c.

ULOBORIDAE.

Uloborus utahensis **sp. n.** Utah p. 244, CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

DICTYNIDAE.

Amaurobius utahensis p. 239, *nomeus* p. 240, **spp. n.** Utah, figs., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**—*A. agelenoides* **sp. n.** Brit. Columbia p. 106 figs., EMERTON Canad. Ent. **51.**

Dictyna hamifera p. 144 figs., EMERTON Vidensk. Medd. **70.**—*D. quadrispinosa* **sp. n.** New York p. 106 fig., EMERTON Canad. Ent. **51.**—*D. uintana* p. 240, *coloradensis* p. 241, *bellans*, *sociella*, *insolens* p. 242, *vincens*, *olympiana* p. 243, **spp. n.** U.S., figs., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

Dictynoides **gen. n.** p. 243 *arizonensis* **sp. n.** Arizona p. 244, fig., CHAMBERLIN t.c.

PRODIDOMIDAE.

Revision of family, DE DALMAS, **16.**

Prodida **gen. n.**, *longiventris* **sp. n.** Philippines p. 324, DE DALMAS Ann. Soc. Ent. France **87.**

Prodidomus rodolphianus E. Africa p. 305, *tigrinus* W. Africa p. 306, *robustus* Erythraea p. 311, *djibutensis* Erythraea p. 314, *simoni* S. Africa p. 315, *hispanicus* Spain p. 318, *geniculosus* Tunis p. 319, **spp. n.**, DE DALMAS t.c.—*P. dalmasi* **sp. n.** E. Africa p. 347 fig., BERLAND Bull. Soc. Ent. France **1919.**

Zimirina **gen. n.** p. 325, *deserticola* Algeria p. 327, *transvaalica* Transvaal p. 328, **spp. n.**, DE DALMAS Ann. Soc. Ent. France **87.**

Zimiris guianensis **sp. n.** Guiana p. 335, DE DALMAS t.c.

DRASSIDAE.

Anzacia **gen. n.** type *Drassodes perexiguus*, Simon, p. 249, DE DALMAS Bull. Mus. Paris **1919.**

Camillina **nom. n.** for *Camilla* Tullgren *non* Curtis p. 458, BERLAND t.c.

Drassodes auriculoides **sp. n.** Ohio p. 355 figs., BARROWS Ohio Nat. **19.**—*D. robinsoni*, *gosiutus* p. 245, *melius* p. 246, **spp. n.** Utah figs., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

Herpyllus oabus **sp. n.** Utah p. 246 fig., CHAMBERLIN t.c.

Hypodrassodes **gen. n.** type *Drassodes maoricus* Dalmas p. 250, DE DALMAS Bull. Mus. Paris **1919.**

Leptodrassus revision p. 243, *croaticus* **nom. n.** for *femineus* Chyzer et Kulczynski *non* Simon p. 244, *Simoni* **nom. n.** for *tenerrimus* Simon *non* Cambridge, *algericus* **sp. n.** Algiers p. 245, *fragilis* **sp. n.** Algiers p. 246, *punicus* **sp. n.** Tunis p. 247, *tropicus* **sp. n.** Sierra Leone p. 247, *pupa* **sp. n.** Suez p. 248, *licentiosus* **sp. n.** Capetown p. 248, figs., DE DALMAS t.c.

Microdrassus **gen. n.** type *Drassodes inaudax*, Simon, p. 249, DE DALMAS t.c.

Prosthesima lacca p. 355, *lutea* p. 356, **spp. n.** Ohio, figs., BARROWS Ohio Nat. **19.**

Xysticus acquiescens p. 107, *ontariensis* p. 108, **spp. n.** N. Amer. figs., EMERTON Canad. Ent. **51.**

Zelotes tuobus **sp. n.** Utah p. 247 fig., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

PALPIMANIDAE.

Hybosida lesserti **sp. n.** E. Africa fig., BERLAND Bull. Soc Ent. France **1919.**

ZODARIIDAE.

Cydrela multipunctata **sp. n.** E. Africa p. 348 fig., BERLAND Bull. Soc. Ent. France **1919.**

Diores kenyae **sp. n.** E. Africa p. 348 fig., BERLAND t.c.—*D. godfreyi* **sp. n.** S. Africa p. 105 figs., HEWITT Ann. Transvaal Mus. **6.**

HERSILIIDAE.

Hersilia alluaudi **sp. n.** E. Africa p. 348 fig., BERLAND Bull. Soc. Ent. France **1919.**

PHOLCIDAE.

Myrmidonella **gen. n.** *minuta* **sp. n.** E. Africa p. 349 fig., BERLAND Bull. Soc. Ent. France **1919.**

Psilochorus utahensis **sp. n.** Utah p. 247 fig., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

THERIDIIDAE.

Argyrodes levuca **sp. n.** Fiji p. 192, *wolfi* p. 192, figs., STRAND Abh. Senckenb. Ges. **36.**

ARGIOPIDAE.

Aranea theisi ab. *feisiana* p. 221, *poumotua* p. 221, *de haani* p. 222, *novae-pommeraniae* p. 223, *toma* **sp. n.** New Pommerania p. 223, *goniaeoides* **sp. n.** Lombok p. 224, figs., STRAND Abh. Senckenb. Ges. **36.**—*A.* (*Neoscona*) *utahana*, *A. tusigia*, **spp. n.** Utah p. 254 figs., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

Argiope avara p. 208, *crenulata* p. 211, *aetherea* p. 211, *wolfi* p. 212, *novae-pommeraniae* **sp. n.** New Pommerania p. 212, *wogeonicola* p. 213, *friedericii* p. 214, *lihirica* p. 215, *boetonica* **sp. n.** Celebes p. 215, *squallica* **sp. n.** New Guinea p. 216, figs., STRAND Abh. Senckenb. Ges **36.**

Bathyphantes fillmoranus **sp. n.** Utah p. 249 fig., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

Caerostris indica, *bankana*, *sumatrana*, **spp. n.** Malay Archip. p. 225, STRAND Abh. Senckenb. Ges. 36.

Ceratinopsis obscurus **sp. n.** Ontario p. 105 figs., EMERTON Canad. Ent. **51.**

Cornicularia monticolens **sp. n.** Utah p. 251 fig., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

Cyrtarachne friedericii p. 236 figs., STRAND Abh. Senckenb. Ges. **36.**

Cyrtophora moluccensis and varr. p. 217 figs., *admiralia* p. 218 figs., *doriae* p. 219, *viridipes* var. n. *scalaris* p. 220 fig., STRAND t.c.

Diaea tongatabuensis p. 237 fig., STRAND t.c.

Diplocephalus wamotsus **sp. n.** Utah p. 251 fig., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

Diplostyla crosbyi **sp. n.** New York p. 105 figs., EMERTON Canad. Ent. **51.**

Erigone psychrophila p. 143 fig., EMERTON Vidensk. Medd. **70.**

Gasteracantha theisi var. *quadrisignatella* p. 228, *strasseni* p. 229, with var. n. *anirica* p. 230, *mahurica* p. 230, *butleri* var. *elberti* p. 230, *wogeonis* p. 231, *analispina* p. 232, with var. *anirensis* p. 233, *wolfi* p. 233, *bradleyi* p. 234, *taeniata* p. 235, *signifera* p. 235, figs., STRAND Abh. Senckenb. Ges. **36.**

Glenognatha bulbifera p. 210 figs., BARROWS Ohio Nat. **19.**

Grammonota vittata **sp. n.** Ohio p. 357 figs., BARROWS t.c.—*G. orites* p. 249, *simplex*, *obesior*, *fratrella*, **spp. n.**, Utah p. 250 figs., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**—*G. semipallida* **sp. n.** Manitoba p. 105 figs., EMERTON Canad. Ent. **51.**

Hilaira uta **sp. n.** Utah p. 253 figs., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

Leucauge granulata var. *ritimara* p. 199, *grata* with seven varr. (? nov.) p. 199, *eua* p. 201, *arbitrariana* p. 202, *lombokiana* p. 202, *mahurica* p. 203, figs., STRAND Abh. Senckenb. Ges. **36.**

Linyphia latescens, *orinoma*, **spp. n.** Utah p. 248 figs., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

Lophocarenum minakianum **sp. n.** Ontario p. 105 figs., EMERTON Canad. Ent. **51.**

Maro humicola **sp. n.** England p. 300 figs., FALCONER Naturalist **1919.**

Micrathena rev. of gen. p. 77, *pfannli* p. 111, *henseli* p. 121, *annulata* p. 149, *dahli* p. 150, **spp. n.** S. America figs., REIMOSER Wien Verh. zool.-bot. Ges. **67.**

Nephila imperialis var. *novae-mecklenburgiae* p. 205, *prolixa* p. 206 figs., *celebesiana* **sp. n.** Celebes p. 206 figs., STRAND Abh. Senckenb. Ges. **36.**

Orsinome elberti, p. 197 figs., STRAND t.c.

Synaema papuanellum p. 237, *seranicum* p. 238 figs., STRAND t.c.

Tetragnatha friedericii p. 194, *ritimarae* p. 195, *anirensis* **sp. n.** Anir p. 196, *eitapensis* p. 196 figs., STRAND t.c.

Troglohyphantes alluaudi **sp. n.** Spain p. 91, *furcifer* p. 93, *cantabricus* p. 96, with var. *anophathalmus* p. 98, *nyctalops* p. 99, *simoni* **sp. n.** France p. 100, *cerberus* p. 101, *pyrenoeus* p. 104, *phragmitis* p. 106, *marqueti* p. 108, *affirmatus* p. 111, *coecus* **sp. n.** France p. 113, *ghidinii* p. 115, *polyophthalmus* p. 116, *orpheus* p. 120, *solitarius* **sp. n.** France p. 122, *lucifuga* p. 124, *excavatus* **sp. n.** Carniola p. 125, *similis* **sp. n.** Carniola p. 128, *spinipes* **sp. n.** Carniola p. 129, *gracilis* **sp. n.** Carniola p. 130, figs., FAGE Arch. zool. **58.**—*T. margerisoni* **sp. n.** England p. 297 figs., FALCONER Naturalist **1919.**

Wubana **gen. n.** p. 252, *retrahens* **sp. n.** Utah p. 253 fig., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

ARCHAEIDAE.

Archaea godfreyi **sp. n.** Cape Province p. 196 figs., HEWITT Rec. Albany Mus. **3.**

THOMISIDAE.

List of African spp., p. 168, DE LESSERT Rev. suisse Zool. **27.**

Diaea puncta p. 139, *albicincta* p. 141 figs., DE LESSERT t.c.

Dieta argenteo-oculata p. 99 fig., DE LESSERT t.c.

Heriaeus latifrons **sp. n.** Kilimanjaro p. 137 figs., DE LESSERT t.c.

Misumena (*Misumenops*) *tuckeri* **sp. n.** Kilimanjaro p. 133 figs., DE LESSERT t.c.

Monaeses pustulosus p. 113 fig., DE LESSERT t.c.

Oxyptila marshalli **sp. n.** Ohio p. 357 figs., BARROWS Ohio Nat. **19.**

Parabomis martini **sp. n.** Kilimanjaro p. 116 figs., DE LESSERT Rev. suisse Zool. **27.**

Paramystaria **gen. n.** p. 102, *variabilis* p. 103, *decorata* p. 106, **spp. n.** Kilimanjaro figs., DE LESSERT t.c.

Philodromus partitus **sp. n.** Kilimanjaro p. 158 figs., DE LESSERT t.c.

Runcinia depressa p. 123, *affinis tropica* p. 124, *aethiops* p. 126, (*Runciniopsis*) *johnstoni* **sp. n.** p. 127, *proxima* **sp. n.** p. 129, *sjöstedti* **sp. n.** p. 131, Kilimanjaro figs., DE LESSERT t.c.

Synaema diana p. 148, *imitator* p. 151, *berlandi* **sp. n.** p. 152, *simoneae* **sp. n.** p. 154, *nigrotibiale* **sp. n.** p. 156, Kilimanjaro figs., DE LESSERT t.c.

Thomisus dalmasi p. 119, *chubbi* p. 121, **spp. n.** Kilimajaro figs., DE LESSERT t.c.

Tibellus vossioni var. n. *minor* p. 161, *kibonotensis* **sp. n.** p. 164, Kilimanjaro figs., DE LESSERT t.c.

Tmarus malleti p. 107, *africanus* p. 111, **spp. n.** Kilimanjaro figs., DE LESSERT t.c.

Xysticus fagei **sp. n.** Kilimanjaro p. 146 figs., DE LESSERT t.c.

CLUBIONIDAE.

Caloctenus boetonensis p. 251 figs., STRAND Abh. Senckenb. Ges. **36.**

Clubiona elberti p. 251 figs., STRAND t.c.—*C. furcata* p. 106, *saltitans* p. 107, **spp. n.** N. Amer. figs., EMERTON Canad. Ent. **51.**—*C. orinoma* **sp. n.** Utah p. 255 fig., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

Corinna tahitica, proboscidea, p. 252, STRAND Abh. Senckenb. Ges. **36.**

Heteropoda strasseni **sp. n.** Java p. 245, *nicki* **sp. n.** Java p. 246, with var. n. *quala* Sumatra p. 247, *kabaenae* p. 248 fig., STRAND t.c.

Olios mygalinus p. 240, *lamarcki* var. *taprobanensis* p. 241, *bungarensis* p. 242, *wolfi* p. 242, STRAND t.c.

Seramba salomonum p. 250 fig., STRAND t.c.

Torania panaretiformis p. 239, STRAND t.c.

Tychicus rufoides p. 249, STRAND t.c.

AGELENIDAE.

Agelena mimoides **sp. n.** Utah p. 256 fig., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**

Cicurina garrina p. 256, *utahana* with subsp. n. *anderis* p. 257, *idahoana* p. 258, **spp. n.** U.S., figs., CHAMBERLIN t.c.

Cybaeus silicis **sp. n.** Ohio p. 356 figs., BARROWS Ohio Nat. **19.**

Hahnia simoni **sp. n.** S. Paulo p. 478, LEITÃO Rev. Mus. Paulista **11.**

PISAURIDAE.

Dolomedes (*Tarentuloides*) *karschi* p. 255, *wetarius* p. 256 fig., STRAND Abh. Senckenb. Ges. **36.**

Hypsithylla celebesiana p. 257 figs., STRAND t.c.

Thalassius mutillatus p. 253, *lombokanus* **sp. n.** Lombok. p. 254, STRAND t.c.

LYCOSIDAE.

Lycosa lombokibia **sp. n.** Lombok p. 260 figs., STRAND t.c.

Pardosa glacialis p. 145 fig., EMERTON Vidensk. Medd. **70.**—*P. utahensis* **sp. n.** Utah p. 258 fig., CHAMBERLIN Ann. Ent. Soc. Amer. **12.**—*P. vancouveri* **sp. n.** Brit. Columbia p. 106 figs., EMERTON Canad. Ent. **51.**

Tarentula tongatabuensis p. 258, *feisica* **sp. n.** Caroline Ids. p. 258, *lombokensis* p. 259, *tanna* p. 260, figs., STRAND Abh. Senckenb. Ges. **36.**

SALTICIDAE.

Asycltus pterygodes p. 267, STRAND Abh. Senckenb. Ges. **36.**

Cocalodes armatissimus p. 262 figs., STRAND t.c.

Cytaea exspectans p. 266 fig., STRAND t.c.

Evarcha hyllinella p. 264 figs., STRAND t.c.

Helpis longichelis p 263 figs., STRAND t.c.

Mollica pusilla p. 263 figs., STRAND t.c.

Opisthoncana formidabilis p. 268 figs., STRAND t.c.

Opisthoncus nigritifemur p. 267 figs., STRAND t.c.

Phidippus hirsutus **sp. n.** Ohio p. 358 figs., BARROWS Ohio Nat. **19.**

Pseudamycus evarchanus **sp. n.** New Pommerania p. 265 fig., STRAND Abh. Senckenb. Ges. **36.**

Sassacus smaragdinus **sp. n.** Ohio p. 359 figs., BARROWS Ohio Nat. **19.**

Sittacus cursor **sp. n.** Ohio p. 359 figs., BARROWS t.c.

SOLIFUGAE.

Rev. of S. African forms, with figs. Only new names noted below, HEWITT Ann. Transvaal Mus. **7.**

Ammotrecha tabogana **sp. n.** Panama p. 211, CHAMBERLIN Proc. Biol. Soc. Washington **32.**

Blossia laticosta p. 64, *laminicornis* p. 65, **spp. n.** S. Africa, figs., HEWITT Ann. Transvaal Mus. **6.**—*B. falcifera* var. n. *dolichognathus* p. 58 fig., S. Africa, HEWITT Ann. Transvaal Mus. **7.**

Chelypus macronyx **sp. n.** Rhodesia p. 213 fig., HEWITT Rec. Albany Mus. **3.**

Solpuga lethalis var. n. *rectus* p. 24, *erythronotoides* **sp. n.** p. 33, *tookei* **sp. n.** p. 35, *chelicornis* varr. n. *pubescens*, *rufescens*, p. 40, and *macrognathus* p. 41, *niassa* var. n. *kafulica* p. 73, S. Africa, figs., HEWITT Ann. Transvaal Mus. **7.**

PSEUDOSCORPIONES.

CARR **12.**

OPILIONES.

CARR **12.**

Phalangiinae spp. ♀ p. 535 figs., MÜLLER Zool. Jahrb. Abth. Syst. **41.**

Liobunum hassiae, *rotundum*, *blackwalli*, p. 185 figs., MÜLLER Ber. Senckenb. Ges. **46.**

RICINULEI, &c.

(Vacant.)

ACARI.

DAMMERMAN **18.**

ORIBATIDAE, ETC.

Anoetus venustissimus **sp. n.** Florence p. 115, BERLESE Redia **13.**

GAMASIDAE.

Ameroseius dubitatus p. 143, *delicatus* p. 144, **spp. n.** Florence, BERLESE Redia **13.**

Calholaspis **gen. n.** *superbus* N. America p. 173, BERLESE t.c.

Coprholaspis **subg. n.** of *Macrocheles* (q.v.) p. 146 fig., BERLESE t.c.

Cypholaelaps **gen. n.** for *Laelaps ampullula* p. 117, BERLESE t.c.

Dinychopsis elimata, uropodina, **spp. n.** Tahiti p. 179, BERLESE t.c.

Dolaea affinis p. 131, *villosior* Nyassaland p. 132, **spp. n.**, BERLESE t.c.

Epicroseius seurati **sp. n.** Tahiti p. 135, BERLESE t.c.

Eucylliba **gen. n.** for *Cylliba bordagei* p. 13, BERLESE t.c.

Eugynolaelaps **subg. n.** of *Laelaps* (q.v.) p. 128, BERLESE t.c.

Evholocelaena **subg. n.** of *Holocelaena*, type *H. bursiformis* Berl. p. 176, BERLESE t.c.

Gamasellus (*Digamasellus*) *bicolor* Florence p. 135, *cylindricus* N. America p. 135, *presepum* Florence p. 136, (*Sessituncus*) *eremita* Italy p. 137, (*Protolaelaps*) *aster* Sardinia p. 137, *subnudus* Florence p. 138 **spp. n.**, BERLESE t.c.

Geholaspis **subg. n.** of *Macrocheles* (q.v.) p. 145, BERLESE t.c.

Gitodinychus **subg. n.** of *Urodinychus*, type *U. hyeroglyphicus* p. 178, BERLESE t.c.

Holocelaeno expolita, pontigera, p. 176, *amygdaligera* p. 177, with var. n. *interrupta* p. 178, **spp. n.** S. America, BERLESE t.c.

Holostaspella (*Prholaspina*) *bisignata* **sp. n.** La Plata p. 175, BERLESE t.c.

Hoplomegistus bicrinus **sp. n.** loc. ? p. 143, BERLESE t.c.

Hypoaspis tenuipes Java p. 117, *sentifer* Java p. 118, *spiculifer* E. Africa p. 118, (*Stratiolaelaps*) *brasiliensis* Brazil p. 119, *etiopicus* E. Africa p. 120, *pauperculus* Java p. 120, *misellus* Somaliland p. 121, *egenus* Zululand p. 122, (*Leptolaelaps*) *elegans* Transvaal p. 123, (*Haemolaelaps*) *spinitarsis* Zululand p. 123, *scapularis* Durban p. 124, *elongatus* Italy p. 125, *concurrens* Sardinia p. 126, *inversus* Florence p. 127, *villosissimus* Zululand p. 128, **spp. n.**, *inops* var. n. *zulu* Zululand p. 125, BERLESE t.c.

Laelaps (*Eugynolaelaps*) *coriaceus* Durban p. 129, *L. giganteus* Zululand p. 129, **spp. n.**, BERLESE t.c.

Laelaps piger **sp. n.** on snakes, Florence p. 70 figs., BERLESE t.c.

Lasioseius (*Lasioseius*) *innumerabilis* Florence p. 132, *dentriticus* Florence p. 133, *tarsalis* Florence p. 134, **spp. n.**, BERLESE t.c.

Leiodinychus **subg. n.** of *Urodinychus* p. 12, BERLESE t.c.

Leptolaelaps **subg. n.** of *Hypoaspis* (q.v.) p. 122, BERLESE t.c.

Liponyssus natricis p. 58 figs., BERLESE t.c.

Macrocheles (*Geholaspis*) *alpinus* var. n. *pauperior* Italy p. 145, (*Coprholaspis*) *elimatus* S. America p. 148, *somalicus* Somaliland p. 148, *gracilipes* La Plata p. 149, *validus* Abyssinia p. 150, *pharaonis* Egypt p. 150, *spectandus* S. America p. 151, *abbreviatus* Somaliland p. 151, *quadriareolatus* Brazil p. 152, *paganus* Angola p. 153, *alecto* Florence p. 153, with varr. n. *aegyptius, aethiopicus, australis* p. 155, *posteroarmatus* var. n. *novimundi* p. 155, *medialis* E. Africa p. 156, *caelatus* E. Africa p. 157, *mundus* La Plata p. 157, *insignitus* France p. 158, *cognatus* La Plata p. 159, with var. n. *hypogaeus* p. 159, *fuscus* La Plata p. 160, *spinipes* La Plata p. 161, *perparvulus* Argentina p. 161, *pusillus* E. Africa p. 162, *spinosus* S. America p. 162, *pulcher* La Plata p. 163, *dimidiatus* S. America p. 163, with var. n. *difficilis* p. 164, *vespillo* N. America p. 164, *immundus* La Plata p. 165, *peniculatus* La Plata p. 166, *vicarius* La Plata p. 167, *decoratus* Java p. 167, *centrogynus* La Plata p. 168, (*Nothrholaspis*) *aciculatus* Paris p. 169, *punctatissimus* Italy p. 170, *montivagus* var. n. *transoceanicus* La Plata p. 171, *mammifer* La Plata p. 171, (*Macrocheles*) *vagabundus* var. n. *neotropicus* S. America p. 173, var. n. *australis* Sydney p. 173, **spp. n.**, BERLESE t.c.

Macrodinychus **subg. n.** of *Urodinychus* p. 12, BERLESE t.c.

Melittiphis **gen. n.** for *Laelaps alvearius* p. 117, BERLESE t.c.

Metagynella **gen. n.** (*Uropodidae*) type *M. paradoxa* **sp. n.** [not descr.] nests of *Camponotus* Italy p. ? , BERLESE Redia **14.**

Nothrholaspis **subg. n.** of *Macrocheles* (q.v.) p. 169, BERLESE Redia **13.**

Oodinychus **subg. n.** of *Urodinychus* p. 12, BERLESE t.c.

Pachylaelaps (*Paralaelaps*) *major* Somaliland p. 139, (*Elaphrolaelaps*) *formidabilis* Nyassaland p. 140, **spp. n.**, BERLESE t.c.

Parholaspis **gen. n.** *desertus* **sp. n.** Java p. 174, BERLESE t.c.

Prholaspina **subg. n.** of *Holostaspella* (q.v.) p. 175, BERLESE t.c.

Trematura **gen. n.** for *Uropoda patavina* p. 12, BERLESE t.c.

Tricholocelaena **subg. n.** of *Holocelaena*, type *H. lengicoma* Berl. p. 176, BERLESE t.c.

Tympanospinctus **gen. n.** near *Spinturnix* p. 116, *paradoxus* **sp. n.** Natal p. 117, BERLESE t.c.

Uroobovella (*Urocyclella*) *parvula* var. n. *nostras* Italy p. 180, BERLESE t.c.

Uropoda hippocrepea **sp. n.** Tahiti p. 180, BERLESE t.c.

Uropodidae key to genera and list of species p. 7, BERLESE t.c.

IXODIDAE AND ARGASIDAE.

BISHOPP **9.**—ELLENBERGER and CHAPIN **19.**—KILLERICH **39.**—NUTTALL **52.**

Ixodes coxaefurcatus syn. of *loricatus* p. 193 figs., PAOLI Redia **13.**

TROMBIDIIDAE, ETC.

EWING and HARTZELL **23.**—TEODORO **61.**

Abrolophus marmoratus **sp. n.** Buenos Aires p. 182, BERLESE Redia **13.**

Achorolophus epigaeus **sp. n.** Italy p. 181, BERLESE t.c.

Anychus **gen. n.** near *Tetranychus* p. 644, type *banksi* p. 644, *rusti* p. 645, MCGREGOR Proc. U.S. Nat Mus. **56.**

Calothrombium **nom. n.** for *Parathrombium* (q.v.) pp. 190 & 199, BERLESE Redia **13.**

Ctenerythraeus **subg. n.** of *Erythrœus* (q.v.) p. 183, BERLESE t.c.

Diplothrombidium misellum **sp. n.** Mexico p. 184, BERLESE t.c.

Erythraeus (*Ctenerythraeus*) *trombidioides* **sp. n.** New Caledonia p. 183, BERLESE t.c.

Imparipes (*Imparipes*) *hystricinus* var. n. *vimariensis* Weimar p. 189, VITZTHUM Zool. Anz. **50.**

Micrereunetes **nom. n.** for *Ereynetes* preocc. p. ?, BERLESE Redia **14.**

Microtrombidium heterocomum Mexico p. 184, *homocomum* Mexico p. 185, (*Enemothrombium*) *rouxi* New Caledonia p. 185. *gemmatum* Mexico p. 186, (*Dromeothrombium*) *perillustre* New Caledonia p. 187, **spp. n.**, BERLESE Redia **13.**

Neotetranychus rubi p. 647, *uniunguis* p. 647 fig., MCGREGOR Proc. U.S. Nat. Mus. **56.**

Paratetranychus peruvianus p. 667, *protensis* p. 668, *ununguis* p. 669, *modestus* p. 670, *pilosus*, *viridis*, p. 671, *citri*, p. 672, *ilicis* p. 673, *bicolor*, p. 675, *yothersi* p. 676, figs., MCGREGOR t.c.

Parathrombium **gen. n.** (*vide Calothrombium*) p. 94, *paolii* **sp. n.** Apulia p. 95 figs., BERLESE Redia **13.**

Schizotetranychus latitarsus p. 648 fig., MCGREGOR Proc. U.S. Nat. Mus. **56.**

Septanychus **gen. n.** near *Tetranychus*, *tumidus* p. 663, *quinquenychus* p. 664, figs., MCGREGOR t.c.

Smaridia magnifica **sp. n.** Italy p. 181, BERLESE Redia **13.**

Tetranychus telarius p. 650, *althaeae* p. 652, *ludeni*, *flavus*, p. 653, *multidigituli*, *bimaculatus* p. 654, *pacificus* **sp. n.** Oregon &c., p. 657, *borealis* p 658, *sexmaculatus* p 659, *weldoni*, *willamettei*, p. 660, *oregonensis* p. 661, *monticolus* p. 662, figs., MCGREGOR Proc. U.S. Nat. Mus. **56.**

Trombicula akamushi p. 241 figs., HATORI Ann. Trop. Med. Liverpool **13.**

HYDRACHNIDAE.

VANDEL **65.**—WESENBERG-LUND **71, 72.**

Arrhenurus hirsutipalpis **sp. n.** Peru p. 57 figs., WALTER Rev. suisse Zool. **27.**—*A. serratus* Wisconsin p. 276,

asiaticus China p. 276, *distinctus* China p. 277, *valencius* Venezuela p. 277, *merrilli* Brazil p. 277, *triconicus* S. Amer. p. 278, *epimerosus* Brazil p. 278, *maderius* S. Amer. p. 279, *quadricornicus* Brit. Guiana p. 279, **spp. n.** figs., MARSHALL Trans. Amer. Micr. Soc. **38.**

Eylais parvipons p. 23, *brevipalpis* p. 25, **spp. n.** Brazil figs., WALTER Rev. suisse Zool. **27.**

Frontipoda ciliata **sp. n.** Peru p. 42 figs., WALTER t.c.

Frontipodopsis **gen. n.** near *Frontipoda* p. 257, *staheli* **sp. n.** Surinam p 258 figs., WALTER Zool. Anz. **50.**

Hygrobates placophorus **sp. n.** Peru p. 39 figs., WALTER Rev. suisse Zool **27.**

Koenikea curvirostris p. 45, *elliptica* p. 48, *aculeata* p. 51, *quadricornuta* p. 54, **spp. n.** Brazil figs., WALTER t.c.

Limnesia unguiculata Peru p. 32, *exigua* Brazil p. 36, **spp. n.** figs., WALTER t.c.

Neocalonyx **gen. n.** near *Calonyx* p. 27, *godeti* **sp. n.** Peru p. 28 figs., WALTER t.c.

Oxus plantaris p. 30, *ovalis* p. 32, *strigatus* p. 33, figs., SOAR J. Quek. Micr. Club. **14.**

Subaturus multiporus **sp. n.** Surinam p. 261 figs., WALTER Zool. Anz. **50.**

HALACARIDAE.

Halacarus decaporus **sp. n.** Switzerland p. 235 figs., WALTER Rev. suisse Zool. **27.**

Halacarus (*Halacarus*) *processifer* **sp. n.** Peru p. 21 figs., WALTER t.c.

Soldanellonyx monardi **sp. n.** Switzerland p. 238 figs., WALTER t.c.

BDELLIDAE.

(Vacant.)

SARCOPTIDAE.

FRISCH **29.**—HANSEN **30.**

Analgopsis **gen. n.** type *passerinus* L. p. 336, TROUESSART Ann. Mag. Nat. Hist. **4.**—*A.* gen. n. near *Analges*, type *A. passerinus* De Geer p. ?, TROUESSART Redia **14.**

Berlesella **gen. n.** near *Mesalges* type *B. alata* **sp. n.** [not descr.] on *Chaetura* Borneo p. ?, TROUESSART Redia **14.**

Hemialges megamerus **sp. n.** on *Pachycephala* New Guinea p. 304, *clypeatus* p. 307, *circinipes* p. 307, *spinicrus* **sp. n.** on *Orthonyx* Queensland p. 308, *tumens* p. 309, *mimus* **sp. n.** on *Phonygama* New Guinea p. 310, *hologaster* **sp. n.** on *Cyclopsittacus* New Guinea p. 311, *forcipes* **sp. n.** on *Mystacornis* Madagascar p. 311, *spinosus* **sp. n.** on *Terpsiphone* Madagascar p. 312, *phanerorchis* **sp. n.** on *Megalestes* New Guinea p. 312, *lativentris* **sp. n.** on *Pachycephala* Samoa p. 313, *astrolabei* **sp. n.** on *Pachycephala* Solomon Is. &c. p. 313, *humerosus* **sp. n.** on *Eurylaimus* Malacca p. 314, *pardalis* **sp. n.** on *Pachycephala* New Guinea p. 316, *strictilobatus* **sp. n.** on *Magalestes* New Guinea p. 316, *priapus* **sp. n.** on *Pachycephala* New Guinea p. 316, *attenuatus* **sp. n.** on *Pachycephala* New Guinea p. 317, *longiventer* **sp. n.** on *Pachycephala* New Guinea p. 317, *curvispina* **sp. n.** on *Pachycephala* New Guinea p. 317, *furcula* **sp. n.** on *Poecilodryas* New Guinea p. 318, *simulans* **sp. n.** on *Orthonyx* New Guinea p. 319, many figs., TROUESSART Bull. Soc. Zool. Paris **44.**

Hyperalges magnificus p. 319 figs., TROUESSART t.c.

Metanalges **gen. n.** type *Megninia elongata* p. 338, TROUESSART Ann. Mag. Nat. Hist. **4.**

Myocoptes hintoni **sp. n.** on *Sciurus* England p. 524, HIRST Ann. Mag. Nat. Hist. **3.**

Plesialges **gen. n.** type *mimus* **sp. n.** on *Pomathorinus* Australia p. 336, TROUESSART Ann. Mag. Nat. Hist. **4.**—*P.* gen. n. *mimus* sp. n. [not descr.] on *Pomathorinus* Australia p. ?, TROUESSART Redia **14.**

Psoroptes natalensis **sp. n.** on cattle, Natal p. 524, HIRST Ann. Mag. Nat. Hist. **3.**

Psoroptoïdes **gen. n.** type *Megninia psoroptopus* p. 337, TROUESSART Ann. Mag. Nat. Hist. **4.**

Sarcoptes scabiei var. *hominis* p. 4 figs., MUNRO J. R. Army Medical Corps **33.**

TYROGLYPHIDAE.

Froriepia **gen. n.** p. 189 *vimariensis* **sp. n.** Weimar, with *Lasius* p. 190 figs., VITZTHUM Zool. Anz. **50.**

Rhizoglyphus echinopus p. 349 figs., YAGI Ber. Ohara Inst. **1.**

DEMODICIDAE.

MERK **45.**

Demodex revision p. 19, *ermineae* **sp. n.** on *Mustela*, Exeter, p. 32, *arvicolae* var. n. *glareoli* on *Evotomys* Devonshire p. 35, figs., HIRST Stud. Acari Brit. Mus. **1.**

ERIOPHYIDAE.

DALEMAN **15.**—FALCONER **28.**—NALEPA **49.**

Diptilomiopus **gen. n.** *javanicus* **sp. n.** Java p. 228, NALEPA Wien Verh. Zool. Bot. Ges. **67.**

TARDIGRADA.

LOMAN **42.**

PENTASTOMIDA.

(Vacant.)

MYRIOPODA

CONTENTS (*see* p. 3)

I.—TITLES.

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II.—SUBJECT INDEX.

STRUCTURE = 3407.

Vulva of *Diplopoda*; **Brolemann et Lichtenstein, 10.**

Spermatophores of *Chordeumidae*; **Verhoeff, 27.**

ETHOLOGY = 3419.

Habitats of *Brachychaeteuma* (*Dipl.*); **Bagnall, 1.**

Migration of *Fontaria* (*Diplop.*); **Brooks, 11.**

Protozoan parasite, *Diplopoda*; **Granata, 19.**

DISTRIBUTION = 3427.

Geographical.

Sweden, *Orphnaeus* (*Chilop.*); **v. Porat, 22.**

Scotland, Forth area, *Myriopoda*; **Evans, 17.**

England, *Brachychaeteuma* (*Dipl.*); **Bagnall, 1**: Yorkshire, *Polyxenus* (*Dipl.*); **Jackson, 20**: *Diplopoda*; **Stainforth, 25**: Lincolnshire, *Polyxenus* (*Dipl.*); **Stainforth, 24**: Staffordshire, *Chilopoda*, *Diplopoda*; **Varty-Smith, 26**: East Sussex, *Myriopoda*; Hastings and E. Sussex Nat. **3** No. 2 1919 (7–12).

Ireland, *Chilopoda*, *Diplopoda*; **Brade-Birks, 4**: Ulster, *Chilopoda*, *Diplopoda*, *Symphyla*; **Foster, 18.**

Central Europe, *Diplopoda*; **Verhoeff, 27.**

Switzerland, *Diplopoda*; **Bigler, 2.**

Austria, *Diplopoda*; **Verhoeff, 28.**

India, *Chilopoda*; **Silvestri, 23.**

Baluchistan, *Chilopoda*; **Silvestri, 23.**

Sumatra, *Chilopoda*; **Silvestri, 23.**

Japan, *Chilopoda*; **Silvestri, 23.**

Algiers, *Diplopoda*; **Brolemann, 6.**

French Guinea, *Diplopoda*; **Brolemann, 7.**

Madagascar, *Diplopoda*; **Brolemann, 8.**

N. America, British Columbia, *Diplopoda*; **Chamberlin, 16**: Tennessee, *Chilopoda*, *Diplopoda*; **Chamberlin, 14**: Tennessee and Mississippi, *Diplopoda*; **Chamberlin, 15**: Texas, *Diplopoda*; **Chamberlin, 13.**

Mexico, *Diplopoda*; **Carl, 12.**

New Guinea, *Chilopoda*; **Silvestri, 23.**

Geological.

Coal Measures, *Diplopoda*; **Jackson and Brade-Birks, 21.**

III.—SYSTEMATIC INDEX = 3431.

Nomenclature, BRADE-BIRKS **3.**—BRADE-BIRKS and BROLEMANN **5.**

Chilopoda.

CHAMBERLIN **14.**—FOSTER **18.**—v. PORAT **22.**—VARTY-SMITH **26.**

Geophilomorpha rev. of Indian and other Oriental spp., only new names noted below, SILVESTRI **23.**

Geoporophilus **gen. n.** (*Geophilinae*) p. 105, type *angustus* **sp. n.** Sumatra p. 107 figs., SILVESTRI Rec. Ind. Mus. **16.**

Himantosoma typicum varr. n. *tridivisa* Sumatra, *bidivisa* India, p. 101, figs., SILVESTRI t.c.

Lamnonyx insularis var. n. *orientalis* p. 59, *cephalotes* varr. n. *subinsularis*, *multispinata*, p. 61, *superior* **sp. n.** India p. 63, subsp. n. *pallida* p. 65, *modestus* **sp. n.** New Guinea p. 68, *subgigas* **sp. n.** New Guinea p. 70, *uncifer* **sp. n.** New Guinea p. 72, *diversidens* **sp. n.** India p. 76, *diversisternus* **sp. n.** Japan p. 81, figs., SILVESTRI t.c.

Mesocanthus brevis p. 95, *perporosus* p. 97, *discretus* p. 98, **spp. n.** India figs., SILVESTRI t.c.

Monotarsobius duboscqui var. n. *fosteri* Ireland p. 4, BRADE-BIRKS Irish Nat. **28.**

Pentorya indica **sp. n.** S. India p. 88 figs., SILVESTRI Rec. Ind. Mus. **16.**

Polyporogaster sinuatus **sp. n.** Baluchistan p. 92 figs., SILVESTRI t.c.

Prolamnonyx **gen. n.** near *Lamnonyx* p. 84, type *holstii* p. 85, *sauteri* **sp. n.** Formosa p. 87, figs., SILVESTRI t.c.

Symphyla.

FOSTER **18.**

Pauropoda.

(Vacant.)

Diplopoda.

BAGNALL **1.**—BRADE-BIRKS **4, 5.**—BROLEMANN et LICHTENSTEIN **10.**—BROOKS **11.**—FOSTER **18.**—GRANATA **19.**—JACKSON **20.**—STAINFORTH **24, 25.**—VARTY-SMITH **26.**—VERHOEFF **28.**

Chelogonobolus **gen. n.** p. 399, *nahuus* p. 401 figs., CARL Rev. suisse Zool. **27.**

Choctella **gen. n.** near *Nannolene*, *cumminsi* **sp. n.** Tennessee p. 25, CHAMBERLIN Psyche **25.**

Craspedosma suevicum subsp. n. *jurassicum* p. 10, *vomrathi* var. n. *zollerianum* p. 13, *v.* var. n. *fraxini* p. 13, *alemannicum brevilobatum* var. n. *abnobium* p. 16, *a. b.* var. n. *cisrhenanum* p. 17, *a. bavaricum* var. n. *silvaenigrae* p. 17, Germany figs., VERHOEFF Stuttgart Jahreshefte Ver. Naturk. **71.**

Fontaria glendalea p. 28, *mimetica* p. 29, *pela* p. 122, Tennessee, *ochra* Mississippi p. 123, **spp. n.**, CHAMBERLIN Psyche **25.**

Glomeris undulata genuina var. n. *silvaenigrae* p. 36, var. n. *bigleri* p. 37, VERHOEFF Jahresh. Ver. Wurttemb. **71.**

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Isophyllostreptus **subg. n.** of *Mardonius* (*q.v.*) p. 34, BROLEMANN Bull. Soc. Zool. France **44.**

Iulus ligulifer claviger var. n. *silvaenigrae* p. 31, VERHOEFF Stuttgart Jahreshefte Ver. Naturk. **71.**

Leptoiulus (*Leptoiulus*) *helveticus* p. 288, *faësi* **sp. n.** with subsp. n. *genuinus* p. 295, subsp. n. *valisiensis* p. 299, *odieri* p. 304, *brevivelatus* **sp. n.** p. 310, *arelatus* **sp. n.** p. 314, *magnus* **sp. n.** p. 318, Switzerland, figs., BIGLER Rev. suisse Zool. **27.**

Mardonius (*Isophyllostreptus*) *Eyraudi* **sp. n.** Madagascar p. 29 figs., BROLEMANN Bull. Soc. Zool. France **44.**

Messicobolus mystecus p. 386 fig., CARL Rev. suisse Zool. **27.**

Microchordeuma voigtii subsp. n. *calcivagum* p. 23 figs. Germany, VERHOEFF Stuttgart Jahreshefte Ver. Naturk. **71.**

Nannaria **gen. n.** type *minor* Tennessee p. 124, *media* Tennessee p. 125, *infesta* N. Carolina p. 126, **spp. n.**, CHAMBERLIN Psyche **25.**

Ophistreptus contortus synonymy p. 281, BROLEMANN Bull. Soc. Ent. France **1918.**

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Parajulus hewitti **sp. n.** Brit. Columbia p. 119 fig., CHAMBERLIN Canad. Ent. **51.**—*P. nigrans* **sp. n.** Tennessee p. 27, CHAMBERLIN Psyche **25.**—*P. ligifer* **sp. n.** Texas p. 119, CHAMBERLIN Proc. Biol. Soc. Washington **32.**

Rhinocricus toltecus p. 379, *totanacus* p. 381, *zapotecus* p. 383, *aztecus* p. 384, figs., CARL Rev. suisse Zool. **27.**

Saussurobolus **gen. n.** p. 389, *nietanus* p. 309, *neglectus* **sp. n.** Mexico p. 391, figs., CARL t.c.

Spirobolus mexicanus p. 403 figs., CARL t.c.

Xenobolus **gen. n.** p. 393, *carnifex* p. 394 figs., CARL t.c.

PROTOTRACHEATA

(Vacant.)

XII. INSECTA

BY

D. SHARP

(Assisted by H. Campion and W. H. T. Tams).

CONTENTS

	PAGE
I. Titles	8
II. Subject Index :—	
General=3503–4803	85
Historical	85
Biographical	85
Bibliographical, Pedagogic	86
Collections, Museums, Institutions	86
Technique, collecting	86
Nomenclature	86
Economic entomology :—	
General	86
Reports	86
(Objects attacked *vide* General and Creatures)	
Creatures attacking	86
Insects and man, human disease	87
Insects and other animals	87
Useful parasites, and predaceous	87
Bee culture (vacant)	
Silk	87
Miscellaneous Products (vacant)	
Structure: Morphology=3507–4807	
General	87
Of outer parts	87
Nervous system, sense organs	87
Myology	87
Alimentary canal	87
Circulatory organs, Respiratory organs	87
Glands, Blood	87
Reproductive organs	87
Structure of eggs (vacant)	

PAGE

Physiology=3511–4811 :—
General 88
Parthenogenesis (*vide* Development) 88
Sex.. 88
Hermaphroditism 88
Senses 88
Particular functions 88
Metabolic 88
Life 88
Environmental (vacant)
Chemical (vacant)
Colour 88

Development=3515–4815 :—
General 88
Regeneration 88
Cycles of Generations 88
Chromosomes 88
Oogenesis Spermatogenesis 88
Fertilisation (vacant)
Parthenogenesis 88
Embryology 88
Postembryology, Metamorphosis 88
Larvae 88

Ethology=3519–4819 :—
General 88
Ant-life 89
Bee-life 88
Wasp-life 89
Termite-life 89
Habitat and Cavernicolous 89
Aquatic 89
Gregariousness 89
Migration, flight 89
Sound-production.. 89
Food-habits 89
Parasitic 89
Nests, Habitat 89
Sex-relations 89
Oviposition and parental.. 89
Hibernation (vacant)
Phenology.. 89
Instinct, psychology, tropisms 89
Attitude, movement, sleep 89
Luminosity 90
Resemblance and utility, mimicry 89
Natural history, special cases 90
Pupal habits, cocoons 90
Insects and plants 90
Galls 90
Acclimatisation 90

PAGE

Aetiology; Variation=3523–4823 :—
General 90
Variation 90
Teratology 90
Hybrids and Crosses (vacant)
Heredity 90
Evolution, including phylogeny.. 90

Geographical or faunistic=3527–4827 :—
General 90
Arctic and antarctic 90
Insular (including New Zealand) 90
Palaearctic region :—
Collective 91
Europe collectively 91
North Europe and Siberia 92
British Islands 92
Central and East Europe 95
France 96
South Europe and Mediterranean 97
Caucasus and West and Central Asia 97
Africa 97
Madagascar, etc. 98
Asia (tropical and Eastern) 99
Asiatic Archipelago 99
Australia and Tasmania 100
North America 101
Central America 102
Antilles 102
South America 102

III. Systematic=3631–4831 :—
General 103
Coleoptera=4831 :—
General 104
Cicindelidae 104
Carabidae 104
Paussidae 107
Haliplidae 108
Dytiscidae 108
Gyrinidae (vacant)
Hydrophilidae 108
Staphylinidae 109
Pselaphidae 114
Scydmaenidae 115
Silphidae 115
Platypsyllidae (vacant)
Trichopterygidae 116
Scaphidiidae 116
Histeridae 116

PAGE

Phalacridae (vacant)
Nitidulidae, Helotidae, Monotomidae 117
Trogositidae 118
Colydiidae.. 118
Discolomidae Adimeridae
Rhysodidae .. } (vacant)
Byturidae .. ..
Cucujidae 118
Cryptophagidae 119
Lathridiidae (vacant)
Mycetophagidae 120
Dermestidae 120
Byrrhidae (vacant)
Thorictidae 120
Parnidae 120
Heteroceridae 120
Lucanidae 120
Passalidae 120
Scarabaeidae 120
Buprestidae 124
Throscidae, Eucnemidae 126
Elateridae 126
Cebrionidae 127
Rhipidoceridae (vacant)
Dascillidae 127
Malacodermidae 127
Cleridae 130
Lymexylonidae (vacant)
Ptinidae 130
Bostrychidae, Lyctidae 131
Cioidae 131
Tenebrionidae 131
Monommidae (vacant)
Cistelidae or Alleculidae.. 133
Nilionidae (vacant), Melandryidae 133
Lagriidae 133
Anthicidae, Pedilidae, Hylophilidae 133
Mordellidae 133
Rhipiphoridae 133
Cantharidae or Meloidae.. 133
Oedemeridae 134
Pythidae 134
Pyrochroidae (vacant)
Trictenotomidae (vacant)
Curculionidae 134
Scolytidae 138
Brenthidae 139
Anthribidae 140
Proterhiuidae (vacant)
Cerambycidae 140

PAGE

Bruchidae 141
Chrysomelidae 141
Erotylidae.. 145
Endomychidae 145
Coccinellidae 145

Strepsiptera 145

Hymenoptera=4631 :—
General 146
Apidae 146
Diploptera (Vespidae, Eumenidae and Masaridae) .. 149
Fossoria (Sphegidae, etc.) 150
Formicidae 152
Chrysidae 156
Ichneumonidae 157
Braconidae 163
Evaniidae 164
Megalyridae (vacant)
Stephanidae 164
Proctotrypidae, Bethylidae 165
Chalcididae (including Mymaridae) 167
Cynipidae 170
Oryssidae, Cephidae, Tenthredinidae, Xyelidae .. 171

Lepidoptera=4431 :—
General 173
Rhopalocera :—
General 174
Papilionidae 174
Pieridae.. 175
Danaidae, Ithomiidae, Acraeidae, Heliconiidae 175, 176
Nymphalidae 176
Morphidae and allies 177
Satyridae 177
Erycinidae, etc... 178
Lycaenidae 178
Hesperiidae 179

Heterocera :—
Castniidae 179
Sphingidae 179
Aegeriidae or Sesiidae.. 180
Bombyces s.l., etc. 182
Dioptidae 187
Noctuidae 185
Geometridae, Epiplemidae, Uraniidae, etc. 187
Pyralidae, Thyrididae 190
Pterophoridae 195
Tortricidae 195
Tineidae s.l. 196

Trichoptera 200

Neuroptera (including Panorpatae) 200

PAGE

Diptera=4231 :—
General 202
Cecidomyiidae 203
Mycetophilidae 206
Chironomidae 206
Culicidae 211
Psychodidae 214
Simuliidae, Bibionidae 214
Blepharoceridae 217
Tipulidae, Rhyphidae and Ptychopteridae, etc. .. 214
Stratiomyidae 217
Scenopinidae 219
Tabanidae.. 219
Leptidae 221
Therevidae (vacant)
Mydaidae, Asilidae 220
Acroceridae 221
Bombyliidae 221
Nemestrinidae 222
Empidae 222
Dolichopidae 222
Lonchopteridae 224
Phoridae, Thaumatoxenidae 224
Platypezidae 225
Pipunculidae 225
Syrphidae 225
Conopidae.. 226
Oestridae 226
Muscidae Calyptratae 226
Muscidae Acalyptratae 231
Pupipara (Nycteribiidae, Hippoboscidae) 236

Aphaniptera=3631 236

Hemiptera=4031 :—
General 236
Heteroptera :—
Pentatomidae 237
Coreidae, Lygaeidae 240
Pyrrhocoridae 241
Tingitidae 241
Aradidae 242
Berytidae 241
Phymatidae (vacant)
Reduviidae, Nabidae 242
Gerridae 246
Cimicidae 246
Anthocoridae, Henicocephalidae, etc. 246
Polyctenidae 247
Saldidae 251
Capsidae, Miridae, Isometopidae 247
Hydrocorisae 251

PAGE

Homoptera :—
Cicadidae 251
Fulgoridae 252
Membracidae 254
Cercopidae 255
Jassidae 255
Psyllidae 256
Aphidae 257
Aleurodidae 258
Coccidae 258

Anoplura or Ellipoptera=3631 260

Thysanoptera=3631 261

Psocidae or Psocoptera=3831 262

Mallophaga or Lipoptera=3631 260
Termitidae or Isoptera 262
Zoraptera 262
Embiidae or Embioptera 262
Perlidae or Plecoptera 263

Ephemeridae or Ephemeroptera=3831 263
Odonata or Paraneuroptera 263
Palaeodictyoptera and Fossils of extinct Orders .. 265

Orthoptera=3831 :—
General 266
Forficulidae 266
Blattidae 266
Phasmidae 268
Mantidae 268
Gryllidae 268
Locustidae 269
Acridiidae 269

Aptera :—
Thysanura (vacant)
Collembola 271

Protura (vacant)

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II.—SUBJECT INDEX.

N.B.—*The full reference may be obtained from "Titles" by means of the author's name and the number of the title.*

GENERAL.

Treatises.

O'Donoghue, 1246; Porter, 1354.

Historical. Biographical.

Dusmer, 482; Mujake, 1158; Schumacher, 1541.

Aurivillius, Gottfrid Agaton Adlerz, **53**; **B.,** J. W. H. Trail, **62**; **Bickhardt,** G. von Seidlitz, **172**; **Caudell, Busck & Howard,** Frederick Knab with bibliography, **304**; **Champion,** F. D. Godman, **308**; **H. D.,** Hereward Chune

Dollman; p. 39 Ent. Rec. **31**; W. W. **F.**, W. E. Sharp, Ent. Mag. **55** p. 263; **Hinke**, W. Kolbe, **799**; **Holland**, H. H. Smith, **807**; **Kryger**, Dr. J. C. Nielsen, **984**; **Leng**, E. D. Harris, **1032**; **Lundblad**, Axel Frisendahl, **1068**; **Nordquist**, J. A. Palmén **1218**; **Osborn**, S. W. Williston portrait, **1260**; **Perrier & Bouvier**, J. Künckel d'Herculais, **1303**; **Porritt**, W. D. Roebuck, Ent. Mag. **55** p. 91; **Pouillaude**, Mulsant portrait, **1361**; **Pouillaude**, Perris, **1362**; **Reverdin**, Charles Blachier, **1410**; **Sahlberg**, Mannerheim, **1480**; **Sattler**, Lucas von Heyden, **1495**; **Senna**, Piero Bargagli, p. 84 Bull. Soc. ent. ital. **50**; **Stamm**, J. C. Nielsen, **1621**; F. C. **W.**, F. H. Wolley Dod, Canad. Ent. **51** p. 239; **Walsingham**, F. D. Godman, **1801**.

Bruce F. Cummings, Ent. Mag. **55** p. 264.—Samuel Wendell Williston, Canad. Ent. **51** p. 39 & 40.—Major Thos. Brown, Ent. Mag. **55** p. 264.—Dr. Raphael Blanchard, Bull. Soc. ent. France **1919** p. 69.—Grand-duke Nicolas Michailovitch p. 69 Bull. Soc. ent. France **1919**.

Bibliographical.

Brocher, 247; **Bergroth, 146**; **Henriksen**, L. Summary of the "Entomologiske Meddelelser" 1887-1917, **788**; **Kleine, 951**; **Rapp, 1377**; **Sharp, 1581**.

Pedagogic.

Heikertinger, 766.

Museums. Collections.

Austen, 57; **Bickhardt, 173, 174**; **Culot, 405**; **Donckier de Donceel**, Brussels collections and the war, Bull. Soc. ent. France **1919** pp. 295 & 296; **Habenthal**, Reitter's Coll. to Hungarian National Museum, Ent. Blätter **13** p. 50; **Waterhouse, 1818**; Druce coll. *Lycaen. & Hesp.* to Joicey, Ent. Rec. **31** p. 185; Prices of Brit. *Lep.* Entom. **52** p. 275 & 276.

Technique. Methods.

Cleare, breeding-cage, **333**; **Gage**, staining, **638**; **Grimshaw, 708**; **Jackson**, fluid for preservation of larvae, p. 117 Canad. Ent. **51**; **Jullien, 892**; **Kleine, 955**; **McDunnough, 1085**; **Moore, 1167**.

Nomenclature.

Apstein, 37.

Economic Entomology.

General.

Allen, Experiment Station Record, **22**; **Aulló, 49**; **Ball, 81**; **Ballou, 83**; **Bedford & Pickering, 115**; **Caudell, 303**; **Dendy** & others, **431**; **Duncan, 477**; **Edwards, 504**; **Felt, 559**; **Fletcher** & others, **586**; **Fryer, 625**; **Gram, 690**; **Holloway & Loftin, 811**; **Jack, 858**; **Leonard, 1033**; **Lockhead**, Class-book, **1055**; **Snyder, 1607**; **Marshall**, Review of applied entomology, **1118**; **Neave**, use of popular names, **1209**; **Paillot, 1274, 1276, 1279**; **Pead, 1296**; **Reyne, 1413**; **Roubaud, 1465**; **Schaeffer, 1497**; **Vayssière**, Marocco, **1755**; **Veitch**, sugar-cane, **1756**; **Wilhelmi, 1860**; **Zacher, 1885, 1886, 1887.**

Reports.

Felt, New York 1916, **557**; **Guitel**, Rennes, **718 & 719**; **Howard**, United States, **840.**

Creatures attacking.

(*a*) *Coleoptera.*

Back, 63; **Barber, 94**; **Beeson, 119**; **Brooks**, *Saperda candida*, **253**; **Burke, 275**; **Chittenden**, *Epilachna*, **323**; **Craighead**, *Cyllene*, **388**; **den Doop**, *Epilachna*, **465**; **Doop**, *Lasioderma*, **466**; **Froggatt, 621**; **Klimesch, 963**; **Leefmans, 1029**; **Picard**, *Cleonus* et *Lixus*, **1324**; **Ritchie, 1428**; **Roepke, 1447**; **Roepke, 1447**; **Saalas**, Finland *Scolytidae*, **1478**; **Schulz, 1529**; **Simmel, 1594**; **Vickery & Wilson, 1767**

(*b*) *Hymenoptera.*

Chatanay, 321.

(*c*) *Lepidoptera.*

Beeson, 120; **Feytaud, 577**; **Froggatt, 620, 623**; **Gough, 688**; **Mosher, 1184**; **Pettey, 1307**; **Pillai, 1341**; **Roepke, 1448**; **Sanders & Dustan, 1483**; **Senior-White, 1573.**

(*d*) *Diptera.*

Caesar & Ross, 285; **Culver, 408**; **Miyake, 1159**; **Rostrup, 1460**; **Sasscer & Borden**, *Dasyneura rhodophaga*, **1494.**

(*e*) *Hempitera.*

Ackerman, *Empoasca & Empoa*, **5**; **Ayyar**, **59**, **60**, **61**; **Ball**, **82**; **Bergevin**, *Aelia triticiperda*, **134**; **Bernard**, **148**, **149**; **Bernard und Gianetti**, **150**; **Brittain**, **244**; **Caffrey & Barber**, *Chlorochroa*, **286**; **Davidson**, *Hyalopterus*, **415**; **Distant**, **449**; **Doop**, **467**; **Feytaud**, **576**; **Leefmans**, **1026**; **Roepke**, **1445**, **1449**; **Quaintance**, *Aspidiotus*, **1375**; **Severin**, **1578**; **Tothill**, **1704**; **Vayssière**, **1753**.

(*f*) *Isoptera.*

Oshima, **1261**.

(*g*) *Orthoptera.*

Bazile, **104**; **Bodkin & Cleare**, **195**; **Marelli**, **1114**; **Musso**, **1198**; **Sergent**, **1576**; **Vayssière**, **1754**; **Velu**, *Schistocerca*, **1757**; **Velu et Bouin**, *Schistocerca*, **1758**.

Insects and diseases of Man.

Bacot, plague, **65**; **Bacot & Talbot**, culicifuges, **67**; **Bahr**, **70**; **Delanoë**, **424**, **425**; **Delmege**, **426**; **Dufrenoy**, **472**; **Duke**, **474**, **475**; **Fielding**, **578**; **Hollande**, **808**; **Hutchison & Pierce**, **851**; **Iyengar**, **856**; **Jack**, **859**; **King**, **944**; **Leefmans**, **1028**; **Lloyd**, **1053**; **Marchoux**, la lèpre **1112**; **Marshall**, Review of applied entomology, **1119**; **Mitter**, **1157**; **Moffat**, **1162**; **Moore & Hirschfelder**, **1168**; **Mouchet**, **1188**; **Niclot**, **1213**; **Parsons & Brook**, **1293**; **Pierce**, **1337**; **Poirson**, **1346**; **Roubaud**, **1466**, **1467**, **1468**; **Schwetz**, **1561**; **Swellengrebel**, **1653**; **Swellengrebel & Swellengrebel de Graaf**, **1658**; **Versluys**, **1766**.

Attacks on Animals.

Bishopp & Wood, poultry lice, **182**; **Brodersen**, **250**; **Cameron**, **291**; **Duke**, **476**; **Montgomery**, **1166**; **Roubaud et Van Saceghem**, parasites du bétail au Congo belge, **1469**.

Useful Insects.

Ferris, lac, **568**; **Froggatt**, **617**, **619**; **Poutiers**, **1365**.

Bee-keeping.

White, **1848**.

Silk.

Cleghorn, **335**; **Maxwell-Lefroy & Ansorge**, **1124**; **Metchnikoff**, **1146**.

STRUCTURE.

General and Miscellaneous.

Bugnion, luminous organs, **270**; **Fuller**, **633**; **Gatenby**, *Hym.* larvae, **650**; **Imms**, *Archotermopsis*, **853**; **Keilin**, Nematocerous larvae, **907**; **Klimesch**, gizzard and ♂ genitalia, **963**; **Mallock**, mechanics, **1107**; **Miyake**, **1159**; **Walker**, **1795**; **Walker**, *Grylloblatta*, **1796**.

External of Outer Parts.

Adolph, **6**; **Beck**, **105**; **Cappe de Baillon**, **298**; **Crampton**, **392**; **Crampton & Hasey**, **394**; **Duporte**, Prothorax *Orthoptera*, **478**; **Edwards**, egg-burster, **502**; **Eggers**, **509**; **Griffiths**, **707**; **Grove**, **716**; **Kleine**, **959**, **960**; **Kremer**, **979**, **980**; **Metcalf**, **1145**; **Reitter**, **1404**; **Schmidt**, **1503**; **Verhoeff**, **1759**; **Walker**, **1795**.

Wings.

Braun, **230**; wing-nervures **Tillyard**, **1694**.

Mouth.

Mosher, Eucnemidae larvae, **1183**.

Nervous System. Sense Organs.

Ast, **48**; **Eltringham**, eye, **522**; **Erhardt**, **539**; **Demoll**, **429**; **Kopec**, **975**; **Priesner**, **1369**; **Smith**, sense organs, *Diptera*, **1601**.

Myology.

Kielich, **943**, **Mallock**, flight-muscles, **1107**.

Alimentary Canal.

Keilin, **908**.

Respiratory System.

Frankenberg, **601**; **Metcalf**, **1145**; **Vinal**, **1778**.

Sex Structures.

Crampton, **391**; **Eecke**, **506**; **Evans**, **545**; **Morrison**, ovipositor, **1177**; **Strindberg**, **1641**; **Strindberg**, *Mallophaga*, **1646**.

Glands. Blood.

Bordas, **214**; **Herrick & Detwiler**, repugnatorial, **791**; **Hollande**, **809**; **Paillot**, **1275**; **Silvestri**, Prostigmatic glands, **1592**; **Teodoro**, **1676**.

PHYSIOLOGY.

Cytology *vide* Development.

General and Miscellaneous.

Harvey, photogenic, **741**; **McDermott**, photogenic, **1084**; **Pictet**, Résistance au froid et longévité, **1328**; **Thompson**, caste of termites, **1683**; **Thompson & Snyder**, origin of caste, **1684**; **Weber**, **1821**; **Weber**, Circulation, Temperature, luminosity, **1822**; **Weber**, Secretion and Excretion, **1824**.

Cycles of Generations.

Moreira, **1169**; **Speyer**, **1616**.

Sex.

Armbruster, **39**, **40**; **Dewitz**, **446**; **Goldschmidt**, **685**; **Harrison**, **738**; **Hindle**, **798**; **Prell**, **1367**; **Seiler**, sex-chromosomes, **1569**.

Hermaphroditism.

Bischoff, **180**; **Heymons**, **795**; **Keilin & Nuttall**, in *Pediculus*, **909**; **Rengel**, **1405**; **Skinner**, gynandromorph *Pap. turnus*, p. 247 Ent. News **30**; **Wheeler**, **1841**.

Functions, including Senses.

Brocher, **245**, **246**, **249**; **Eltringham**, sight, **522**; **Frisch**, **610**, **611**, **613**; **Gericke**, **662**; **Kathariner**, sight, **900**; **Rich**, **1415**; **Verhoeff**, *Elateridae* springing, **1760**; **Wager**, **1785**; **Weber**, **1821**.

Metabolism.

Baumberger, **103**; **Kemnitz**, **914**; **Portier**, effect of sterilised food, **1358**; **Wollman**, sterilised food, **1876**.

Life.

Clemow, Longevity of longicorn larva, Pr. ent. Soc. London **1918** p.lii; **Davey**, **413**; **Ferris**, of *Margarodes*, **571**; **Pictet**, **1328**.

Colour.

Brecher, **234**; **Hass**, structure of colour, **748**; **Onslow**, **1252**; **Schleip**, **1502**.

DEVELOPMENT.

General and Miscellaneous.

Mohr, influence of radium, **1164**; **Seyster**, temperature and devel. of eye, **1580**.

Regeneration.

Przibram, **1372**, **1373**.

Cytology. Chromosomes.

Dehorne, **423**; **Harvey**, binucleate-cells, **742**; **Kowalski**, **976**; **Paillot**, **1277**, **1278**; **Seiler**, **1568**; **Seiler**, sex chromosomes, **1569**; **Stauffacher**, **1624**; **Teodoro**, **1676**.

Spermatogenesis.

Foot, *Pediculus*, **595**; **Mohr**, **1163**.

Parthenogenesis.

Armbruster, **39**; **Edwards**, **501**; **Gautier**, **653**; **Lankester** terminology, **1012**.

Embryology.

Emeis, **524**; **Foà**, **591**, **592**; **Gatenby**, **650**; **Hoffman**, **804**; **Huie**, **848**; **Strindberg**, **1642**, **1644**; **Strindberg**, of *Coccidae*, **1645**; **Strindberg**, of *Tapinoma*, **1647**.

Post-embryology. Metamorphosis.

Bordage, histolysis, **213**; **Brocher**, **248**; **Kathariner**, emergence from pupa, **901**; **Pictet**, **1332**; **Suenson**, hatching of *Metoecus*, **1651**.

Larvae and Pupae.

Arnhart, **41**; **Dyar**, **493**; **Enslin**, **538**; **Goetghebuer**, **683**; **Kryger**, larvae of *Coleoptera*, **985**; **Lestage**, **1038**; **Ljungdahl**, **1052**; **Meijere**, **1126**; **Nielsen**, *Plagia ruralis* larva, **1215**.

ETHOLOGY.

Vide etiam Economic.

General and Miscellaneous.

Eldering, **515**; **Gahan**, cuckoo-spit, **645**; **Haviland**, **750**; **King**, **945**; **Poulton & Carpenter**, **1364**; **Sack**, **1479**; **Wesenberg-Lund**, **1835**; **Wheeler**, **1847**.

Insects damaging lead, **Laing**, p. 278 Ent. Mag. **55**.

Bee-life.

Frisch, **610-613**; **Prell**, **1368**; **Wheeler**, **1837**, **1847**.

Wasp-life.

Bequaert, 131 ; **Bouvier**, les Philanthes, 224 ; **Descy**, instinct, **438, 439** ; **Jansson**, 867; **Kohl**, 973; **Rabaud**, 1376 ; **Roepke**, 1441, 1442 ; **Schmitt**, 1505 ; **Williams**, 1868.

Ant-life.

Blaisdell, 189 ; **Bruch**, 225*i* ; **Cornetz**, *Messor barbarus*, **384** ; **Donisthorpe**, **463, 464** ; **Emmelius**, 527 ; **Escherich**, **544** ; **Farquharson** pp. xxxii-xxxix & **Poulton** p. xl. Proc. ent. Soc. London 1918 ; **Gallardo**, **646** ; **Lea**, 1015 ; **Oberthür**, 1241 ; **Roepke**, 1440 ; **Santschi**, 1485 ; **Schmitz**, 1506, 1510 ; **Stiller**, 1633 ; **Wasmann**, 1804, 1805, 1806, 1809, 1810, 1811, 1812, 1813, 1814.

Termite-life.

Bezzi, 164 ; **Imms**, 853 ; **Schmitz**, 1506, 1507 ; **Snyder**, 1606 ; **Uichanco**, 1729 ; **Warren**, 1803 ; **Wasmann**, 1812.

Habitat.

Bezzi, snow *Chionea*, 166, 168 ; **Everts**, 550 ; **Handschin**, snow, 731 ; **Jansson**, 868 ; **Macnamara** Snow Collembola, 1091 ; **Simmel**, 1593 ; **Swellengrebel** & **Swellengrebel**, 1659.

Cavernicolous.

Bezzi, 160 ; **Bolivar y Pieltain**, 204 ; **Chopard**, 327 ; **Csiki**, 401 ; **Jeannel**, 874, 875 ; **Schmitz**, 1508 ; **Zariquiez**, 1888.

Aquatic.

Brocher, 247 ; **Elmhirst**, marine, 520 ; **Henriksen**, *Hymenoptera*, 789 ; **Schumacher**, 1555.

Gregariousness, Flight, Migration.

Banks, 90 ; **Deegener**, Raupensympaedien, 422 ; **Demoll**, 430 ; **Morris**, *P. cardui*, p. 20 Entom. 52 ; **Petch**, 1306 ; **Richter**, 1418 ; **Scott**, 1566 ; **Voss**, 1782 ; **Williams**, 1864.

Sound-production.

Kleine, 961.

Food-habits.

Arnold, 42 ; **Banks**, 89 ; **Christy**, 328 ; **Haviland**, 749 ; **Peyerimhoff**, 1308 ; **Schwetz**, 1563, 1564 ; **Strindberg**, 1643 ; **Wallis**, 1799.

Parasitism.

Bresslau & **Buschkiel**, 236 ; **Bridwell**, 243 ; **Buchner**, 269 ; **Cros**, 399 ; **Dufrenoy**, 473 ; **Froggatt**, 617, 622 ; **Fuchs**, 626 ; **Gatenby**, 650, 651 ; **Gautier**, of *Apanteles*, 652 ; **Gautier**, emergence of larvae, 654 ; **Gilbert**, 674 ; **Graham-Smith**, parasites of common fleas, 689 ; **Hesse**, 792 ; **Hollinger** & **Parks**, 810 ; **Howard**, 841 ; **Keilin**, *Diptera* & molluscs, 906 ; **Kieffer**, par. of Mantid oothecae, 939 ; **Lloyd**, 1054 ; **Nielsen**, 1215 ; **Perkins**, 1300 ; **Plath**, 1343, 1344 ; **Rosenfeld**, 1459 ; **Rudow**, 1472, 1473 ; **Sikora**, 1591 ; **Silvestri**, 1592 ; **Smits Van Burgst**, 1602 ; **Stub**, 1648 ; **Vuillet**, 1783 ; **Wheeler**, 1837 ; **Williams**, 1865 ; **Williams**, *Pipunculus*, 1867 ; **Williams**, 1869.

Sex-relations.

Colthrup, Pairs of Rhopalocora, p. 75 Ent. Rec. 31 ; **Goetghebuer**, 682 ; **Hase**, 744 ; **Labitte**, 993 ; **Perkins**, *Stylops*, 1302 ; **Walker**, 1798.

Parental, Oviposition.

Burke, 273 ; **Cameron**, 291 ; **Chapman**, 317, 318 ; **Hamm**, 728 ; **Oudemans**, 1265, Anzahl Eier *Lep.* ; **Oudemans**, 1267 ; **Vandevelde**, 1739, 1740.

Phenology.

Verity, 1761, 1763.

Instinct. Tropisms.

Henning, 785, 786 ; **Minnich**, 1155 ; **Pictet**, 1329, 1330, 1331, 1333, 1335 ; **Sladen**, 1598 ; **Staeger**, 1619.

Resemblance, Protection, Utility.

Barker, 98 ; **Beeson**, 121 ; **Bemmelen**, markings, 122 ; **Bemmelen**, wing markings Sphingides, 123, 124 ; **Cleare**, 334 ; **Collinge**, 379 ; **Dixey**, 457 ; **Heikertinger**, new terms, 764 ; **Heikertinger**, 768, 770, 771 ; **Karny**, 896 ; **Kaye**, Pr. ent. Soc. London 1918 p. l. ; **Melin**, 1132 ; **Onslow**, 1253 ; **Poulton**, false head *Lycaenidae*, Proc. ent. Soc. London 1918 p. xliv. ; **Speyer**, 1617 ; **Swynnerton**, Selection and mimicry, 1664.

Attitude.

Resinger, 1386 ; **Schmidt**, swimming, 1504.

Luminosity.

Paiva, 1280.

Natural history (particular cases).

Claycomb, *Heterocerus,* **332 ; Dickerson & Weiss, 448 ; Foucher,** *Cyphocrania gigas,* **599 ; Frost,** frass rejector, **624 ; Hase, 743 ; Imms,** *Archotermopsis,* **853 ; Lestage, 1037 ; Murphy, 1197 ; Nuttall,** *Pediculus,* **1225 ; Pause, 1294 ; Schüffner, Swellengrebel & Swellengrebel de Graaf,** *Myzomyia ludlowi,* **1527 ; Schulz, 1531 ; Severin, 1577, 1578 ; Traver,** *Depressaria,* **1708 ; Wilhelmi, 1858, 1859 ;**

Pupal Habits. Cocoons.

Burke, 272 ; Keilin, of *Diptera,* **905 ; Oudemans,** abnormale Saturnia-Cocons, **1264 ; Vanhöffen, 1749, 1750.**

Insects, Plants and Flowers.

Frisch, 611 ; Jansson, 870 ; Kleine, 949, 952 ; Lovell, 1056 ; Ricôme, dangerous fertilisation, **1419 ; Schumacher, 1543 ; Swezey,** on Lobelioideae, **1660 ; Theobald,** *Hippophae rhamnoides,* **1678 ; Weiss & Dickerson, 1829.**

Galls.

Bagnall, 69 ; Baudys, 102 ; Galls of south Denbighshire, **Dollman,** pp. **164,** 166 Naturalist **1919 ; Falconer,** Scarborough galls, p. 392, Naturalist **1919 ; Felt, 561, 562 ; Hedicke, 758, 759, 760, 761 ; Houard, 839 ; Jaap, 857 ; Molliard, 1165 ; Picard, 1326 ; Rübsaamen, 1474 ; Schulze, 1532, 1533, 1535 ; Tavares. 1671, 1673 ; Uichanco, 1728 ; Weld, 1832.**

Acclimatisation.

Lécaillon, 1018.

VARIATION AND AETIOLOGY.

General.

Thompson & Snyder, 1684.

Variation.

Baker, 71 ; Bryk, 267, 268 ; Burrows, in size of ind. and of genitalia, **277 ; Cockerell, 354 ; Griffini,** of size, **702, 704 ; Hasebroek, 745, 746 ; Haviland, 750 ; Joicey & Kaye, 889 ; Perkins,** size, **1301 ; Pazibram, 1374 ; Reverdin, 1408 ; Rogers,** seasonal forms of *Rhop.*, Pr. ent. Soc. London **1918** p. lviii-lx ; **Schulze, 1534 ; Seydel, 1579 ; Sheldon, 1586 ; Sick,** *Cerostoma,* **1590 ; Springer, 1618 ; Verity, 1764 ; Wahlgren, 1791 ; Welch & Porritt,** *Lepidoptera,* Naturalist **1919** p. 47 and 48 ; **Wheeler,** *Epinephele,* **1836.**

Teratology.

Metcalf, 1144 ; Natvig, 1199 ; Pierre, 1339 ; Uhmann, 1730 ; Leman, *Silpha atrata* p. 185 Ent. Rec., **31.**

Heredity.

Bacot, 64 ; Bridges, 237, 238 ; Castle, 302 ; Cockayne, 339 ; Goldschmidt, 685 ; Haldane, 723 ; Harrison, 737, 739 ; Hindle, 798 ; Klatt, 948 ; Lécaillon, 1017 ; Onslow, 1250, 1251 ; Plough, 1345 ; Stark, 1622, 1623 ; Sturtevant, Bridges & Morgan, 1650 ; Wasmann, mendelism in ant-races, **1805, 1806 ; Whiting, 1849.**

Evolution, Selection, Phylogeny.

Bickhardt, 171 ; Crampton, 389, 390, 392, 393 ; Griffini, 703 ; Lutz, 1072 ; Tillyard, 1694 ; Walker, 1795.

GEOGRAPHY OR FAUNISTIC.

General.

Kuntzen. Distribution of flightless beetles, **992.**

Arctic.

Canadian arctic exp. *vide* North America.

†Henriksen, *Coleoptera,* tertiary deposits in East-Greenland, **787 ; Kieffer,** *Diptera,* **940 ; Kieffer & Thienemann** *Diptera,* **942 ; Folsom,** Greenland *Collembola,* **594.**

Insular, including New Zealand.

Madeira, *Coleoptera,* **Grouvelle, 710.**

Canaries, *Coleoptera,* **Escalera, 543.**—*Hymenoptera,* **Mercer, 1141 ; Santschi, 1492, 1493 ; Szépligeti, 1665.**—*Diptera.* **Becker, 110, 112 ; Kertesz, Hermione, 925.**

Saint Helena, *Coleoptera.* **Desbordes,** Bull. Soc. ent. France **1919** p. **99.**—*Lepidoptera.* **Hunt** p. 117 Ent. **52.**

Bismarck Arch., *Hymenoptera,* **Szépligeti, 1666.**—*Diptera.* **Assmuth, 47.**

New Britain, *Coleoptera,* **Heyden, 794.**—*Lepidoptera.* **Hampson, 729.**—*Heteroptera,* **Horváth, 838.**—*Paraneuroptera,* **Campion, 297.**

New Pomerania, *Heteroptera* **Horváth, 820.**

New Hebrides, *Coleoptera,* **Kerremans, 919.**—*Heteroptera,* **Poppius, 1350.**

New Ireland, *Diptera,* **Kertész, 924.**

New Hanover, *Coleoptera,* **Kerremans, 919.**

New Mecklenburg, *Lepidoptera,* **Aurivillius, 54.**

Solomon islds., *Coleoptera,* **Kerremans, 919.**—*Hymenoptera,* **Mann, 1109.**—*Heteroptera,* **Horváth, 820.**—*Neuroptera,* **Banks, 85.**

Fiji islds., *Coleoptera,* **Champion, 306.**—*Hymenoptera,* **Fullaway, 630; Turner, 1715.**—*Lepidoptera,* **Meyrick, 1151.**—*Diptera,* **Brues, 262.**—*Heteroptera,* **Poppius, 1350.**

Samoa, *Insecta,* **Giffard,** P. Hawai ent. Soc. **4** p. 180.

Society islds., *Coleoptera,* **Kerremans, 919.**

Guam. Ladrone islds., *Diptera,* **Parker, 1287.**

Lord Howe isld., *Coleoptera,* **Lea, 1014.**—*Hymenoptera,* **Wheeler, 1843.**

New Caledonia, *Hymenoptera,* **Turner, 1716.**—*Lepidoptera,* **Prout, 1370.**—*Heteroptera,* **Poppius, 1352.**

Loyalty islds., *Coleoptera,* **Kerremans, 919.**—*Heteroptera,* **Poppius, 1350, 1352.**

New Zealand, *Coleoptera,* **Brown, 254; Portevin, 1355.**—*Hymenoptera,* **Hudson** *Sirex juvencus* Ent. Mag. **55** p. 181.—*Lepidoptera,* **Meyrick, 1152; Philpott, 1315.**—*Heteroptera,* **Poppius, 1350.**

Hawaiian islands, *Insecta,* **Giffard, 672; Swezey,** Maui, Proc. Hawai. ent. Soc. **4** p. 2.—*Coleoptera,* **Bridwell, 239; Fullaway & Giffard, 632;** Laysan isld., **Perkins, 1298; Sharp, 1582.**—*Hymenoptera,* **Bridwell, 240, 242, 243; Kieffer, 930; Timberlake, 1698, 1699.**—*Diptera,* **Alexander, 12.**—*Homoptera,* **Bridwell, 241; Crawford, 395; Muir, 1196.**

Juan Fernandez, *Lepidoptera,* **Hampson, 730.**

Galapagos, *Hymenoptera,* **Brues, 259; Wheeler, 1838.**

Cocos isld., *Hymenoptera,* **Wheeler, 1839.**

Tulagi, *Coleoptera,* **Kerremans, 919.**

Palaearctic Region.

(a) Collectively.

Coleoptera.

Bickhardt, 177; Kniž, 972; Obenberger, 1227, 1229, 1230, 1237; Pic, 1319. 1320; Schuster, 1557, 1558; Reitter, Tunis & Buchara, **1390; Reitter, 1391, 1392, 1393, 1403; Wichmann, 1850.**

Hymenoptera.

Duchaussoy, 471; Enslin, 537; Habermehl, 721; Kieffer, 928, 929, 930; Kohl, 973; Kryger, *Trichogramminae,* **986; Mocsáry, 1161; Szépligeti, 1666.**

Lepidoptera.

Culot, 406, 407; Sheljuzhko, 1588; Zerny, 1890.

Diptera.

Becker, 108, 109, 110, 111, 112; Kieffer, 935; Kuntze, 989; Lichtwardt, 1048; Lundström, 1070; Szilády, 1667.

Heteroptera.

Horváth, 827, 830, 832, 833.

(b) Europe, collectively.

Coleoptera.

Apfelbeck, 35; Benick, 128; Dodero, 460; Kuntzen, 990; Meyer, 1150; Zimmermann, 1891.

Hymenoptera.

Bondroit, 208; Henriksen, 789; Szépligeti, 1665.

Lepidoptera.

France and Italy, **Ashby** pp. 111–113 & 129–133 Ent. Rec. **31.**

Neuroptera.

Esben-Petersen, 541; Navás, 1200.

Diptera.

Kieffer, 936; **Rübsaamen**, **1477**; **Schmitz**, **1508**, **1512**; **Villeneuve**, **1776**.

Homoptera.

Horváth, **837**.

Thysanoptera.

Bagnall, **68**.

(c) North Europe and Siberia.

Insecta.

Jansson, **869**; **Kiefbeck**, Gottland, Ent. Tidskr. **40** p. 340–342, & Dalarna p. 344 T.c.; **Strand**, Norway, **1637**, **1640**.

Coleoptera.

Aurivillius, Sweden, **55**; **Born**, Faeroes, **216**; **Eggers**, Siberia, **512**; **Frisendahl**, Norway, Finland, **614**; **Frisendahl**, Sweden, **615**; **Hermanson**, Holland, Ent. Tidskr. **40** p. 188; **Kemner**, Sweden, **910**, **911**, **912**; **Ostrand**, Sweden, Ent. Tidskr. **40** p. 180–182; **Reitter**, Siberia, **1395**; **Saalas**, Finland, **1478**; **Spessivitzer**, **1615**.

Hymenoptera.

Aurivillius, Sweden, **554**; **Forsius**, Finnland, **598**; **Roman**, Faeroes, **1457**; **Roman**, Sweden, **1458**.

Lepidoptera.

Benander, Sweden, Ent. Tidskr. **40** p. 186–188; **Hansen**, Lolland, **733**; **Hawkshaw**, Norway, **751**; **Nordström**, Sweden, **1219**; **Poppius**, Sarekgebirge, **1353**; **Von Porat**, Jönköpings, Ent. Tidskr. **40** p. 188; **Wahlgren**, West-arctic forms, **1789**; **Welander**, Kalmar & Jönköpings, Ent. Tidskr. **40** pp. 333–340.

Diptera.

Becker, Faeroes, **106**; **Engel**, Faeroes, **535**; **Kieffer**, Faeroes, **931**; **Ringdahl**, Sweden, **1424**; **Ludlow**, Siberia, **1063**; **Lundström**, Amur, **1071**; **Stein**, Faeroes, **1626**; **Wahlgren**, Sweden, **1792**, **1793**, **1794**, and *Trineura schineri*, Ent. Tidskr. **40** p. 340.

Heteroptera.

Horváth, Siberia, **838**; **Jansson**, Sweden, *Aneurus*, Ent. Tidskr. **40** p. 184.

Orthoptera.

Aurivillius, Sweden, **56**.

Lipoptera.

Waterston, Faeroes, **1819**.

Psocoptera.

Enderlein, Finland, **534**.

Aptera.

Wahlgren, *Collembola*, **1788**.

(d) British Islands.

THE FAUNA AS A WHOLE.

Coleoptera.

Allen, **23**; **Balfour-Browne**, **80**; **Sharp**, *Dryops*, **1584**; **Thouless**, *Leptura rubra*, **1685**; British *Col.* in France, **Deville** pp. 196-200 Ent. Mag. **55**; *Colpodes splendens* in Berkshire, **Tomlin** p. 159 Ent. Mag. **55**.

Hymenoptera.

Johnson, **888**; **Kieffer**, **928**; **Lyle**, **1074**; **Morice**, **1170**, **1171**, **1172**; **Perkins**, nomenclature, **1299**; **Perkins**, **1300**.

Lepidoptera.

List of british Psychides, **Burrows** pp. 165-167 Ent. Rec. **31**; Noctuidae **South** Entomol. **52** pp. 11-14 etc.; Stainton's "hilly field," **Sheldon** p. 31-33 Ent. Rec. **31**; *Areniphes sabella*, in London, **Durrant** p. xiv P. ent. Soc. London **1919**; *Platyptilia pica*, **Durrant** Pr. ent. Soc. London 1919 p. vi.

Neuroptera.

Lucas, **1060**.

Diptera.

Collin, *Eumerus strigatus*, **378**; **Edwards**, **499**, **500**, **501**; **Jarvis**, **871**; Lang, *Anophelinae*, **1008**; **MacGregor**, **1089**, **1090**; Seashore *Diptera* **Yerbury**, **1882**.

Hemiptera.

Butler, **281**; **Butler**, *Megacoclum beckeri*, **282**; **Edwards**, **503**; **Ferris**, *Pseudococcus maritimus*, **567**; **Laing**, **1005**; **Theobald**, **1677**.

Paraneuroptera.

Recent records, **Campion, 295**; Odonata in 1918, **Lucas, 1061.**

Orthoptera.

Orthoptera in 1918, **Lucas, 1062.**

LOCAL LISTS.

Insecta.

New Forest, **Morley** p. 208 Ent. Mag. **55**; **Champion** p. 209 T.c.

Hastings, **Butterfield, 283.**

Faversham *Hym. & Dipt.*, **Robertson** Entom. **52** p. 59 & 60.

Yorkshire, **Morley etc.**, Naturalist **1919** p. 39 & 40, and pp. 407 & 408 T.c.; Bubwith, **Fordham, 596.**

Ireland, **Johnson** p. 20-23 & 127-129 Irish Natural. **28.**

Coleoptera.

The Lizard, **Keys** p. 259 & 260 Ent. Mag. **55.**

South Cornwall & Devon, **Keys, 926.**

Dartmoor, **Pearce**, p. 261 Ent. Mag. **55**; Exmouth *Cal. sycophanta* Ent. Mag. **55** p. 180.

Studland *Hydrovatus*, **Tomlin** p. 159 Ent. Mag. **55.**

Sherborne *A. oelandica*, **Pearce** p. 207 Ent. Mag. **55.**

Brighton, **Ryle** p. 178 Ent. Mag. **55.**

Chichester *C. sahlbergi*, **Harwood** p. 280 Ent. Mag. **55.**

Gower *Diabrotica soror*, **David** p. 88 Ent. Mag. **55.**

Oxwick *Hydrovatus*, **Tomlin** p. 159 Ent. Mag. **55.**

Glamorgan and Berks *Bagous lutulosus*, **Tomlin** p. 260 Ent. Mag. **55.**

Somerset *Platyrrhinus* etc., **Gimingham** p. 158 Ent. Mag. **55** & p. 179 & 180 & 207 Ent. Mag. **55**; Dunster, **Black** p. 231 Ent. Mag. **55.**

Wilts *Odontaeus*, **Ryle** p. 231 Ent. Mag. **55.**

Wyre Forest, **Ashe**, p. 260 Ent. Mag. **55.**

Oxford *Cercyon sternalis*, **Collins** p. 68 Ent. Mag. **55.**

Berkshire *Atheta inhabilis*, **Nicholson** p. 207 Ent. Mag. **55.**

Weybridge *Hylotrupes*, **Mitford** Ent. Rec. **31** p. 222.

Hertfordshire, **Gimingham** p. 157 Ent. Mag. **55**; Brickett wood, **Donisthorpe** p. 185 Ent. Rec. **31.**

Essex, **Gedye** p. 16 Ent. Mag. **55.**

Trent valley, aquatic col., **Wallis** p. 127 & 128 Ent. Mag. **55.**

Norfolk *Aleuonota egregia*, **Cameron** p. 178 Ent. Mag. **55**; Norfolk and Isle of Wight, *Lytta*, **Blair** p. 207 Ent. Mag. **55.**

Oxford, *Ocypus cyaneus*, **Morley** p. 159 Ent. Mag. **55.**

Lancashire and Cheshire, **Mansbridge** p. 46 Naturalist **1919**; Manchester, **Potter** Ent. Mag. **55** p. 88.

Yorkshire, **Fordham** p. 273 Naturalist **1919**; in 1918, **Fordham** p. 102-104 T.c.; Yorkshire, **Stainforth** p. 361 & 362 T.c.

Cumberland *Thalycra*, **Day** Ent. Mag. **55** p. 16.

Coniston, **Grace** p. 292 Naturalist **1919.**

Westmorland (continuation), **Day** p. 77-79, 239-242, 327-328 Naturalist **1919.**

Scotland additions, **Fergusson, 566**; Argyll, *S. caesareus* p. 200, *Halyzia 16-guttata* and *C. conglobata* p. 201, **Fergusson** Scott. Nat. **1919**; Lanarkshire *Cerambycidae*, **Fergusson** p. 30 Scott. Nat. **1919** and *Cychramus luteus*; **Fergusson** p. 96 T.c.; Ayr *Dorytomus longimanus*, **Fergusson** p. 93 T.c.

Arran *Ochthebius lejolisi*, **Fergusson** p. 64 T.c.; Renfrew and Stirlingshires *Notaris aethiops*, **Fergusson** p. 64 T.c.

Clare, *Carabus clathratus*, **Bennis** p. 91 Irish Nat. **28.**

Hymenoptera.

Channel islds., **Hallett** p. 262 Ent. Mag. **55.**

Bewdley *Anthidium manicatum*, **Williams** Ent. **52** p. 278.

London, *Andrena fulva*, **Copeman, 383.**

Leicestershire Aculeata, **Box** p. 15 & 16 Ent. Rec. **31.**

Lichfield, *Tenthredella flavicornis,* **Morice** p. xvi P. ent. Soc. London **1919.**

Yorkshire, Naturalist **1919** p. 210; **Fordham** p. 168 Naturalist **1919**; Doncaster, **Corbett** p. 158-160 Naturalist **1919.**

Forfarshire *Sirex noctilis,* **Carter** p. 63 Scott. Natural. **1919.**

Ireland, *Aculeata,* **Johnson** Irish Natural. **28** pp. 6–8 & p. 132 and *Rhyssa,* **Johnson** p. 115 Irish Nat. **28.**

Lepidoptera.

North Cornwall *L. arion,* **Disney** p. 216 Ent. **52.**

S. Devon 25 years, **Mayor, 1125.**

Studland *D. nerii,* **Riviere** p. 207 Ent. Rec. **31.**

Isle of Wight, *Spilosoma urticae,* **Godfrey** p. 138 Ent. **52**; *Rhopalocera,* **Cornell** p. 279 Ent. **52.**

New Forest *A. corydon* **Lucas** p. 237 Entom. **52** and **Mellows** p. 262 T.c.

Portsmouth *Sciapteron tabaniforme* **Burras** p. 276 Ent. **52.**

Sussex *S. pinastri* E. P. **Sharp** p 168 Ent. Rec. **31**; *P. machaon* **Crisp** p. 236 Entom. **52**; Eastbourne *D. nerii* **Chartres** p. 188 Ent. Rec. **31**; Brighton *L. sibylla* **Bramwell** p. 257 Entom. **52**; Folkestone *Isoria lathonia* **Mathew** p. 259 Ent. **52.**

Alton **Stowell** p. 258 Ent. **52.**

Winchester *P. c-album* **Pierce** p. 237 Ent. **52.**

Longmoor Hants, **Hunt,** p. 43 Entomol. **52.**

Godalming **Prout** pp. 20 & 21 Tr. London Nat. hist. Soc. **1918.**

Kent **Rowland-Brown** p. 277 Ent. **52.**

Burnham beeches *L. sibylla,* **Campion** p. 236 Ent. **52**; and High Wycombe **Pierce** p. 237 T.c.

Ditton Park *Attacus* **Blackie** p. 234 Ent. **52.**

Pewsey *Pol. c-album* **Gardner** p. 22 Entom. **52.**

Gloucester *Pselnophorus brachydactylus* **Clutterbuck** p. 274 Ent. 52.

Highworth *P. c-album,* **Arkell** p. 261 Ent. **52.**

Glamorgan, **Hallett, 726.**

Bath **Sich** p. 14 Ent. Rec. **31.**

Wales and Hereford, **Richards** p. 190 Ent. **52.**

Essex *Rhopalocera* **Mathew** p. 227 Entom. **52**; **Whittle** p. 68 Ent. **52,** **Thurnall** p. 90 T.c.; Dovercourt *C. nerii* **Mathew** p. 237 Ent. **52**; Ongar, **Russell** pp. 49-51 Ent. Rec. **31.**

Metropol. List. *C. fraxini* **McLeod** p. 189 Ent. **52.**

Warwick *E. antiopa* **King** p. 260 Ent. **52.**

Monk's Wood and Wansford **Lister** pp. 77-79 Ent. **52.**

Suffolk *H. pinastri* **Crisp** p. 257, **Sillan** p. 258, Ent. **52.**

Repton *Sesia asiliformis* **Hayward** p. 190 Ent. **52** and *Hesperia malvae* **Hayward** p. 168 Ent. **52.**

Sherwood **Daws** p. 33 Ent. Rec. **31.**

N.E. Derbyshire, *Rhop.,* **Drabble** & **Drabble** Naturalist **1919** pp. 10-12, **Brown** p. 79 t.c.

Yorkshire, **Butterfield** p. 278 Naturalist **1919**; Huddersfield *C. nerii* **Porritt** p. 232 Ent. Mag. **55**; Wharfedale, *Micro.,* **Mansbridge** Naturalist **1919** pp. 135 & 136; Hull, **Stainforth** Strather coll., **1620.**

North England **Harrison** p. 38-40, 51-53 Entomol. **52.**

Cheshire *Hesperia malvae* **Thompson** p. 189 Ent. **52.**

Durham *P. moneta* **Gardner** p. 138 Ent. **52.**

Cumberland *Aspilates ochrearia* **Ford** p. 167 Ent. **52**; Windermere *A. praecox* **Garnett** p. 257 Ent. **52.**

Witherslack and Rannoch, **Lister, 1051.**

Scotland, **Rowland-Brown, 1471**; Lammermuirs *Pol. artaxerxes,* **Evans** p. 96 Scott. Natural. **1919**; Forth *Boarmia gemmaria* **Evans** p. 199 Scott. Nat. **1919**; Edinburgh *Colias* **Hill** p. 199 Scott. Natural. **1919**; Forfarshire *Colias* **Carter** p. 199 Scott. Nat. **1919**; Rannoch **Whittle** pp. 54-56 Entom. **52**; Deeside *Endromis* **Gowan** p. 200 Scott. Nat. **1919**; West Highlands *Z. achilleae* **Reid** p. 188 and **Esson** p. 189 Ent.

52; Isld. Coll., *Rhopalocera* **Cowan** p. 64 Scott. Natural. **1919**; Inverness *R. lapponaria* **Redmayne** p. 141 Ent. **52**; Shetland **Saxby** p. 21 Entomol. **52.**

Ireland, **Halbert, 722**; *Argynnis aglaia,* **Bonaparte-Wyse** p. 12 Irish. Nat. **28**; N.E. Ireland **Williams** pp. 53-57 Ent. Rec. **31**; Mayo *Argynnis aglaia,* **Ruttledge** p. 72 Irish Nat. **28**; Wicklow, *Leucophasia,* **Tebb** p. 92 Irish Nat. **28**; Wexford, *Leucophasia,* **Moffat** p. 106 Irish Nat. **28**; East Tyrone **Greer** pp. 72-74 Ent. Rec. **31**; **Greer** p. 118 & 119 Irish Nat. **28**; Waterford, **Flemyng** p. 55 Irish Nat. **28**; Cork, *C. edusa,* **Westropp** p. 120 Irish Nat. **28**; *Leucophasia,* **Bonaparte-Wyse** p. 92 Irish Nat. **28.**

Trichoptera.

Yorkshire *P. obsoleta,* **Porritt** p. 69 Ent. Mag. **55.**

Neuroptera.

Berkshire *Chrysopa dorsalis* **Collins** p. 69 Ent. Mag. **55**; Colchester *Chrysopa dorsalis* **Harwood** p. 18 Ent. Mo. Mag. **55.**

Diptera.

Devon, **Yerbury, 1880.**

Glamorgan, **Yerbury, 1881.**

Wellington Coll. *Pocota* **Arkell** p. 261 Ent. **52.**

Yorkshire, **Cheetham** p. 380 & p. 388 Naturalist **1919**, additional list, **Id.** pp. 394 & 395 t.c. pp. 305 & 310 244 182 96 T.c.

Grange *Machimus atricapillus* **Cheetham** p. 19 Ent. Mag. **55.**

Forfarshire, **Carter** p. 62 Scott. Natural. 1919; Perthshire **Carter** p. 233 Ent. Mag. **55.**

Hemiptera.

Jersey **Butler** pp. 137 & 138 Ent. Mag. **55.**

Cornwall *Notonecta halophila* **Hutchinson** p. 261 Ent. Mag. **55.**

New Forest **Lyle, 1073.**

Chiltern hills, *Grypotes* **Butler** p. 17 Ent. Mo. Mag. **55.**

Norfolk *Gerris asper* **Hutchinson** p. 33 Ent. Mag. **55.**

Bradford *Elasmostethus,* **Butler** p 17 Ent. Mo. Mag. **55.**

Cumberland *Delphax* **Day** p. 17 Ent. Mo. Mag. **55.**

Isle-of-man **Newstead, 1212.**

Caithness etc. **Jackson, 860.**

Ireland *Ploiaria culiciformis,* **Johnson** p. 91 Irish Nat. **28.**

Paraneuroptera.

Bristol **Hewer** p. 191 Ent. **52.**

North Wales **Newton** pp. 155-157 Ent. **52.**

Yorkshire, **Carter** p. 399 Naturalist **1919.**

Lancashire and Cheshire, **Lucas, 1058.**

Orthoptera.

Dorset **Haines** p. 238 Ent. **52**; Bloxworth *T. verrucivora,* **Lucas** p. 280 Ent. **52.**

Aptera.

Yorkshire and Derbyshire, **Brown, 255.**

(e) Central and Eastern Europe.

Insecta.

Denmark, **Wesenberg-Lund, 1834**; Austria, **Werner** Zeitschr. wiss. Insbiol. **14** pp. 293–297; Poland, **Pongrácz, 1347.**

Coleoptera.

Csiki, 401; **Eggers**, Russia, **511**; **Jeannel**, Roumania, **874**; **Künnemann, 988**; **Langhoffer, 1011**; **Reitter**, Roumania, **1389**; **Reitter, 1396**; **Reitter**, Ural, **1399**; **Reitter**, Carpathians, **1400**; **Scheidt, 1499**; **Stiller, 1633**; **Varendorff**, Poland, **1751**; **Varendorff**, Wilna, Ent. Bl. **13** pp. **83** and **84.**

Wradatsch, flood of the Save; Ent. Bl. **11** pp. 181–187, 1915.

Denmark, **Høeg, 800.**

Holland, **Everts, 546, 547, 548, 549.**

Belgium; **Ball**, Alost, Dytiscidae, Gyrinidae, Bull. Soc. ent. Belgique **1** pp. 60–63; **Frennet**, Bull. Soc. ent. Belgique **1** pp. 50–52; **Frennet** & **Guilleaume, 605**; **Guilleaume** p. 113 and p. 125, Ann. Soc. ent. Belgique **59**; **Guilleaume** p. 103, Bull. Soc. ent. Belgique **1**; **d'Orchymont, 1254**;

d'Orchymont, *Laccobius ytenensis*, Ann. Soc. ent. Belgique **59** p. 23; **Van Dorsselaere**, **1741, 1742**

Germany; **Benick, 130; Bickhardt,** Wiesbaden mole's nest. Ent. Bl. **14** p. 181–183; **Fruhstorfer,** Tessin, Z itschr. wiss. Insbiol. **14** pp. 232 and 233; **Füge, Memmert** isld., **627**; **Hartmann,** Schwarzwald, *Ennearthron wagae*, Ent. Bl. **13** 1917; **Meyer, 1148, 1149; Neresheimer & Wagner, 1210; Stock, 1634; Wanka, 1802.**

Hymenoptera.

Strand, 1639.

Denmark; **Jørgensen, 880, 881.**

Holland, **Lindemans, 1049; Oudemans, 1263, 1269; Smits Van Burgst, 1602, 1603.**

Belgium; **Bondroit,** *Formicidae*, p. 69 Ann. Soc. ent. Belgique **59**; **Dubois,** *Fossoria*, Bull. Soc. ent. Belgique **1** pp. 95–97.

Germany; **†Cockerell, 341; Kieffer & Enslin, 941; †Kinsey,** Baltic, **946; Trautmann & Trautmann, 1707; Wolff, 1875.**

Lepidoptera.

Denmark; **Høegh-Guldberg, 801; Jensen,** Sealand, **876; Mikkelsen, 1154; Winther, 1874.**

Germany; **Bois-Reymond, 201; Hoffmann, 803; Kiefer, 927.**

Russia, **Sheljuzhko, 1587.**

Neuroptera.

Holland, **Willemse, 1862.**

Diptera.

Hendel, 784; Schmitz, 1509, 1511, 1513; Villeneuve, 1775.

Denmark; **Lundbeck, 1066; Nielsen, 1216, 1217; Rostrup, 1460.**

Holland, **Meijere, 1127.**

Rousseau, *Notiphila stagnicola*, Bull. Soc. ent. Belgique **1** p. 101; **Tonnoir, 1701, 1702, 1703.**

Germany, **Rübsamen, 1475, 1476.**

Hungary, **Riedel, 1420, 1421.**

Archangelsk, **Frey, 606.**

Hemiptera.

Müller, 1191; Schumacher, 1553.

Denmark; **Jacobson,** Cat. *Psyllidae*, **862; Jensen-Haarup, 877.**

Holland, **Mac Gillavry, 1087.**

Belgium, **Schouteden, 1526,** and *Phylloxerina salicis*, Ann. Soc. ent. Belgique **59** p. 24.

Germany, **Schumacher, 1538, 1540.**

Hungary; **Horvath, 824, 831; Schumacher, 1550.**

Paraneuroptera.

Schuster, Heilbronner, Ent. Zeitschr. Frankf. **29** p. 73.

Orthoptera.

Willemse, Netherlands, **1861.**

Zacher, 1884.

Aptera.

Switzerland, **Handschin, 731.**

(f) France.

Insecta.

Navás, Insecta **9** p. 195.

Coleoptera.

Chobaut, 324; Clermont, 337; Deville, 441, 442, 443, 444; Friederichs, 608; Hubenthal, 845; Jeannel, 875; Lebon, Royan, *Scarabaeidae*, Miscell. ent. **24** p. 61; **Peschet, 1305; Peyerimhoff, 1312; Pionneau,** France mér., Miscell. ent. **24** pp. 41–43; **Rapp,** Südfrankreich, Ent. Bl. **14** pp. 45–54 1918.

Hymenoptera.

Gautier & Riel, 656; Honoré, 813; Lichtenstein, 1044, 1045; Lichtenstein & Picard, 1047; Pic, 1323; Picard, 1325, 1327.

Lepidoptera.

Demaison, 427; Etendard, Sarthe, *Araschnia levana*, Miscell. ent. **24** p. 70; **Graham, 688a; Guignon,** Fontainebleau *Lithocolletis platani*, Bull. Soc. ent. France **1919** p. 368; **Mann & Eveleigh,** Upper Lys valley, *Rhopalocera*, pp. 2 and 4, Entomol. **52**; **Miller,** Pas-de-Calais and Somme pp. 164 and 165 Ent. **52**; **Morris, 1176; Oberthür, 1244** and *Syrichthus*, Bull. Soc. ent. France **1919** p. 218.

Diptera.

Becker, in **Keilin, 906**; **Brolemann, 251, 252**; **Langeron, 1009**; **Péju, 1297**; **Pierre, 1340**; **Recroix, 1380**; **Villeneuve, 1774** and *Culex salinus*, Bull. Soc. ent. France **1919** p. 198.

Hemiptera.

Gelin, 660.

Psocoptera.

Lacroix, 1001.

(g) South Europe and Mediterranean Basin.

Insecta, collectively.

Houard, 839; **Jaap, 857**; **Lucas, 1059**; **Navás** Neuropteroidea, **1201**; **Steck, 1625.**

Coleoptera.

Apfelbeck, 36; **Bedel, 114**; **Bolivar y Pieltain, 203, 204, 205, 206, 207**; **Clermont, 336**; **Csiki, 400, 402**; **Escalera, 542, 543**; **Fleischer, 584**; **Fuente, 628, 629**; **Jeannel, 873, 874**; **Krekich-Strassoldo**, Cairo, **978**; **Laboissière, 994**; **Moroder, 1175**; **Normand, 1221**; **Obenberger, 1228, 1231, 1238**; **Peyerimhoff, 1308, 1309, 1311**; **Portevin, 1355**; **Rasetti, 1378**; **Reitter, 1389, 1394, 1401, 1402**; **Schuster, 1556**; **Théry, 1679**; **Vidal, 1768, 1769**; **Zariquiey, 1889.**

Strepsiptera.

Peyerimhoff, 1310.

Hymenoptera.

Alfken, 21; **Duchaussoy, 470**; **Krausse, 977**; **Mercet, 1137, 1138, 1139, 1140, 1141**; **Morley, 1174**; **Santschi, 1486, 1491, 1492**; **Tavares, 1673**; **Timberlake**, Sicily, **1696.**

Lepidoptera.

Buresch, 271; **Delbanty**, Macedonia, pp. 139–141 Ent. **52**; **Graves, 695**; **Hampson, 730**; **Mace, 1086**; **Mendes, 1135**; **Rocci, 1431**; **Roch, 1433**; **Turati, 1711**; **Verity, 1761**; **Walsingham, 1800**; **Wilson**, Macedonia, p. 166 Ent. **52.**

Trichoptera.

Navás, 1203.

Neuroptera.

Balkans, **Mace** pp. 239 & 240 Ent. **52**; **Navás, 1202, 1207, 1208.**

Diptera.

Arias, 38; **Becker, 107**; **Bezzi, 160, 168**; **Delanoë, 424, 425**; **Kieffer, 935**; **Niclot, 1213**; **Parrot, 1291**; **Pierre**, Macedonia, **1338**; **Pittaluga & de Buen, 1342**; **Tavares, 1673**; **Verity, 1762**; **Villeneuve, 1777.**

Hemiptera.

Bergevin, 135, 136, 137, 138, 140, 141; **Divac**, Servia and Macedonia, S.B. Ges. naturf. Fr. Berlin **1917** pp. 562 & 563; **Horváth**, Egypt, **820, 821, 826, 834, 836**; **Krumbach, 983**; **Schumacher, 1545, 1546, 1547.**

Paraneuroptera.

Campion, Macedonia, **296.**

Orthoptera.

Chopard, 325.

(h) Caucasus, West & Central Asia.

Coleoptera.

Champion, Arabia, **313, 314**; **Desbordes, 436**; **Dodero, 460**; **Eggers, 513**; **Fleischer, 585**; **Heyden, 793**; **Krekich - Strassoldo, 978**; **Maulik**, Arabia, **1123**; **Reitter, 1387, 1388, 1397.**

Hymenoptera.

Cockerell, 343; **Turner, 1724.**

Diptera.

Brunetti, 265.

Hemiptera.

Horváth, Arabia, **825** & **838**; **Matsumura, 1121.**

Paraneuroptera.

Morton, Mesopotamia, **1182.**

Uvarov, 1733, 1734, 1735, 1736.

Africa.

Coleoptera.

Achard, 1; **Alluaud, 24, 25, 26**; **Arrow, 43, 45**; **Barker, 96**; **Bénard, 125**; **Benderitter, 127**; **Berlioz, 147**; **Bernhauer, 152, 156, 158**; **Bickhardt,**

175, 176, 178; Bourgoin, 221; Caillol, 287; Cameron, 293; Champion, 310, 313, 314; Csiki, 403; Desbordes, 435, 437; Eggers, 514; Fleutiaux, 588; Grouvelle, 710, 712, 713, 715; Heller, 777, 778, 779; Hustache, 850; Kerremans, 917, 918; Kleine, 957; Kolbe, 974; Krekich-Strassoldo, 978; Kriesche, 981; Kuntzen, 991; Laboissière, 995, 997, 998, 999, 1000; Lesne, 1034; Marshall, 1115, 1116; Maulik, 1123; Obenberger, 1232, 1233, 1234, 1239, 1240; Pic, 1316, 1320; Portevin, 1356; Spaeth, 1609, 1611; Wasmann, 1807, 1808, 1810, 1816, 1817; Wichmann, 1850, 1851; Zimmermann, 1892.

Hymenoptera.

Bequaert, 131; Bridwell, 242, 243; Carpenter, 299; Cockerell, 360, 361; Elliott, 516; Enderlein, 528, 529, 530; Forsius, 597; Heymons, 796; Kieffer, 928; Kinsey, 947; Mocsáry, 1161; Morley, 1174; Santschi, 1488, 1489, 1490; Schouteden, 1517, 1521; Szépligeti, 1665, 1666; Timberlake, 1696; Turner, 1718, 1723; Wasmann, 1809; Waterston, 1820.

Lepidoptera.

Barker, 95; Clark, 330, 331; Devos, 445; Hall, 724; Hampson, 729, 730; Hardenberg, 734; Janse, 864, 865, 866; Jones, 890; Kaye, 903; Le Cerf, 1019, 1020; Meyrick, 1151; O'Neil, 1248, 1249; Prout, 1370, 1371; Rebel, 1379; Schouteden, 1520.

Trichoptera.

Lestage, 1042, 1043.

Diptera.

Alexander, 19; Becker, 109; Bezzi, 162, 163; Bouet, 219, 220; Brues, 261; Engel, 536; Gedoelst, 658; Ingram, 854; Johnson, 887; Kahl, 894; Kertész, 921, 925; Kieffer, 935; Ricardo, 1414; Rodhain & Bequaert, 1435; Rübsaamen, 1474; Schmitz, 1506; Stein, 1627; Villeneuve, 1771.

Heteroptera.

Bergroth, 143; Distant, 451; Horváth, 818, 820, 835, 838; Jeannel, 872; Schouteden, 1515, 1516, 1518, 1519, 1522, 1523, 1524, 1525; Schumacher, 1544.

Homoptera.

Brain, 229; Distant, 453, 454; Enderlein, 533; Funkhouser, 635; Melichar,

Ellipoptera.

Bedford, 117; Fahrenholz, 552.

Thysanoptera.

Bagnall, 68; Hood, 815.

Ephemeroptera.

Lestage, 1043.

Paraneuroptera.

Grünberg, 717; Ris, 1427.

Orthoptera.

Bolivar, 202; Karny, 897, 898; Sjöstedt, 1595.

Aptera.

Carpenter, 300.

Madagascar and Mascarene Islands.

Insecta.

Voeltzkow and others, Comores, 1781.

Coleoptera.

Alluaud, 24, 26; Arrow, Mauritius, 44; Bedel, 113; Bénard, Mauritius, 126; Bernhauer, 152, 158; Bourgoin, 222, 223; Grouvelle, 715; Hustache, 849; Lesne, La Réunion, 1036; Obenberger, 1236; Pic, 1316, 1320; Portevin, 1356; Pouillaude, 1359, 1360; Spaeth, 1610.

Hymenoptera.

Santschi, 1488.

Lepidoptera.

Hampson, Seychelles, 730; Le Cerf, 1019, 1021, 1022; Meyrick, Seychelles, 1151; Prout, 1370.

Diptera.

Kertész, 925; Stein, Bourbon Mad. & Mauritius Réunion 1627.

Hemiptera.

Bergroth, 144, 145; Distant, 451; Horváth, 818, 819, 838; Jacobi, 861.

Paraneuroptera.

Grünberg, 717.

Orthoptera.

Chopard, 326 ; Karny, 896 ; Sjöstedt, 1595.

Asia, Tropical and Eastern (including Japan).

Insecta.

†**Cockerell, 358, 359 ; Fletcher, 586 ; Navás, 1206** ; Records of Ceylon spp.; Spol. Zeylan. **10** pp. 380–384.

Coleoptera.

Achard, Sikkim, **3,** China, **4 ; Andrewes, 27, 28, 29, 31 ; Arrow, 44, 45 ; Bernhauer, 154 ; Bickhardt, 177 ; Blair, 186 ; Boucomont, 218 ; Bourgoin, 223** & Mekong, **222 ; Cameron, 292, 294 ; Champion, 307, 309, 311, 312, 313, 314 ; H. G. Champion, 315 ; Chapin, 316 ; Desbordes, 432, 434 ; Fleischer,** Korea, **584 ; Fleutiaux, 589, 590 ; Gebien, 657 ; Gravely, 692 ; Grouvelle, 710, 715 ; Hubenthal, 846, 847 ; Kleine, 958 ; Kriesche, 982 ; Laboissière, 996 ; Lapouge, 1013 ; Lesne, 1035 ; Marshall, 1117 ; Maulik, 1122 ; Obenberger, 1227, 1232, 1233, 1238 ; Pic, 1316, 1319, 1320 ; Portevin, 1355, 1357 ; Prell, 1366 ; Reitter,** Kashmir, **1388 ; Reitter,** Chin. Turkestan, **1398 ; Reitter,** Kashmir, **1403 ; d'Orchymont, 1254, 1256 ; Sampson, 1482 ; Schuster,** Chinese Turkestan etc., **1557 ; Spaeth, 1611 ; Wasmann, 1812 ; Wichmann ;** Himalaya, **1851.**

Hymenoptera.

Bridwell, Japan, *Hylaeus,* **242 ; Bridwell,** Japan, *Atractodes,* **243 ; Cockerell, 342 ; Cockerell,** Japan, **346 ; Cockerell, 347, 348, 349, 350 ; Dutt, 483 ; Elliott, 516, 517, 518, 519 ; Enderlein, 529 ; Friese, 609 ; Fullaway, 630 ; Gahan, 641 ; Kohl,** Kashmir, Korea etc., **973 ; Mocsáry, 1161 ; Morley, 1174 ; Szépligeti, 1665, 1666 ; Timberlake,** China, **1696 ; Turner, 1719, 1720, 1725 ; Viehmeyer, 1770.**

Lepidoptera.

Allen, Kumaon *Rhop.* p. 870 J. Bombay Soc. **26 ; Durrant, 480 ; Godfrey, 680 ; Hampson, 729, 730 ; Le Cerf, 1025 ; Meyrick, 1151 ; Oberthür, 1243 ; Ormiston,** Ceylon *Rhop.*, **1259 ; Prout, 1370, 1371 ; Rothschild, 1463 ; Strand,** Formosa, **1638 ; Swinhoe, 1662, 1663 ; Turner,** Japan *Rhop.*, **1714 ; Vincent, 1779 ; Wileman & South,** Formosa, **1857 ; Zerny,** Afghanistan, Chinese Turkestan, **1890 ; Zimmermann, 1893.**

Diptera.

Alexander, Japan, **13 ; Becker,** Formosa, **109 ; Becker,** Tibet, **110 ; Cole,** Japan, **374 ; Hendel,** Formosa, **782, 783 ; Iyengar, 856 ; Kertész, 921 ; Kertész,** Formosa, **920, 922, 923, 924, 925 ; Kieffer, 935 ; Kieffer,** Formosa, **932 ; Malloch, 1092 ; Malloch,** Formosa, **1093 ; Miyake,** Japan, **1159 ; Ricardo, 1414 ; Riedel, 1422 ; Schmitz, 1506, 1507 ; Stein, 1627 ; Townsend, 1705 ; Villeneuve,** Formosa, **1771, 1772.**

Heteroptera.

Bergroth, 144 ; Distant, 451, 452, 455, 456 ; Horváth, 820, 824, 829, 832, 835, 838 ; Paiva, 1281, 1282 ; Poppius, 1350, 1351, 1352 ; Japan and Formosa, **1348 ; Schumacher, 1552 ;** Japan, **1539.**

Homoptera.

Baker, 77 ; Crawford, 395 ; Distant, 450 ; Enderlein, Ceylon, **533 ;** Van der **Goot,** Ceylon *Aphid.*, **686 ; Green, 696 ; Matsumura, 1121 ; Melichar, 1131 ; Takahashi,** Japan, *Aphidae,* **1668.**

Thysanoptera.

Bagnall, 68 ; Hood, 816 ; Karny, 899.

Isoptera.

Oshima, 1261.

Paraneuroptera.

Fraser, 602, 603 ; Laidlaw, 1004.

Orthoptera.

Chopard, 327 ; Griffini, 701, 706.

Asiatic Archipelago.

Java to New Guinea, incl. Philippines.

Insecta, collectively.

Banks, 89 ; Dodd, 459 ; Uichanco, 1728.

Coleoptera.

Andrewes, 29, 31; Arrow, 44; Bryant, 266; Champion, 313; Chapin, 316; Bickhardt, 170, 176, 178, 179; Blair, 186, 187; Banks, 91; Benick, 129; Fleutiaux, 587; Gebien, 657; Grouvelle, 710, 715; Györiffy, New Guinea, 720; Heller, 774, 776, 780; Hubenthal, 846; Kerremans, 919; Kleine, 950, 956, 958, 962; Marshall, 1117; Obenberger, 1235, 1239, 1240; d'Orchymont, 1254; Pic, 1316, 1319, 1320; Roepke, 1438, 1440; Sampson, 1482; Schultze, 1528; Senna & Calabresi, 1575; Sharp, 1583; Spaeth, 1611; Wasmann, 1812.

Strepsiptera.

Hofeneder, 802.

Hymenoptera.

Bridwell, 240, 242; Cockerell, 342, 346, 348, 350, 364, 365, 366, 367, 368, 369, 370; Dodd, 458; Elliott, 516, 518; Enderlein, 528, 529, 530, 532; Friese, 609; Fullaway, 630, 631; Girault, 677; Kieffer, 930; Mocsáry, 1161; Timberlake, 1698; Viehmeyer, 1770; Wheeler, 1840; Williams, 1868; Roepke, 1439, 1443; Rohwer, 1451, 1455; Szépligeti, 1665, 1666.

Lepidoptera.

Banks, 87; Clark, 330; Eecke, 505; Hampson, 729, 730; Jordan, 891; Kaye, 903; Meyrick, 1151; Prout, 1370; Röber, 1436; Rothschild, 1463; Swinhoe, 1661, 1662, 1663; Wileman & South, 1856.

Neuroptera.

Banks, 85.

Diptera.

Banks, 88; Becker, 109; Bezzi, 161; Edwards, 497; Felt, 560; Kahl, 894; Kertész, 921, 924, 925; Kieffer, 933; Mangkoewinoto, 1108; de Meijere, 1128, 1129; Parker, 1287; Ricardo, 1414; Stein, 1627, 1628; Swellengrebel, 1656; Taylor, 1674; Townsend, 1705.

Aphaniptera.

Rothschild, 1464.

Heteroptera.

Bergroth, 144; Distant, 449, 451; Horváth, 820, 822, 823, 824, 835, 838; Leefmans, 1027; Poppius, 1348, 1350, 1351, 1352; Roepke, 1445.

Homoptera

Baker, 77, 78, 79; Cockerell, 345, 353, 371; Crawford, 395; Froggatt, 618; Funkhouser, 634; Melichar, 1131; Moulton, 1189; Muir, 1192.

Thysanoptera.

Hood, 815.

Isoptera.

Uichanco, 1729.

Embioptera.

Roepke, 1437.

Paraneuroptera.

Ris, 1425, 1427.

Orthoptera.

Hanitsch, 732; Karny, 896; Roepke, 1446.

Australia and Tasmania.

Insecta, collectively.

Searle, 1567.

Coleoptera.

Arrow, 45; Bickhardt, 176; Blair, 186; Bridwell, *Bruchus*, Proc. Hawai. ent. Soc. 4 p. 41; Carter, 301; Elston, 521; Girault, 679; Goudie, 687; Grouvelle, 710, 711, 715; Kerremans, 919; Lea, 1014, 1015, 1016; Obenberger, 1239; Portevin, 1355; Prell, 1366; Senna, 1574.

Hymenoptera.

Brues, 258; Cockerell, 346; Elliott, 518; Girault, 678; Mocsáry, 1161; Morice, 1173; Szépligeti, 1665; Turner, 1717, 1721, 1722, 1726; Wheeler, 1843.

Lepidoptera.

Durrant, 480; Hampson, 729, 730; Meyrick, 1151; Swinhoe, 1661, 1662, 1663; Turner, 1712.

Neuroptera.

Banks, 85; Tillyard, 1686, 1688, 1693,† 1690,† 1691.

Diptera.

Bezzi, 164; Hendel, 784; Hill, 797; Kertész, 924, 925; Kieffer, 933; Rübsaamen, 1474; Taylor, 1674, 1675; Townsend, 1705.

Hemiptera—Heleroptera.

Bergroth, 144, 145; Horváth, 820, 835; Poppius, 1350, 1352.

Thysanoptera.

Bagnall, 68; Hood, 814.

Lipoptera.

Mjöberg, 1160.

Orthoptera.

†Tillyard, 1692.

North America.

Insecta, collectively.

Banks, Canada, **86; †Cockerell, 341; Gibson,** Canada, **664; Nicolay, 1214.**

Coleoptera.

Bernhauer, 157; Blaisdell, 189, 190; Blatchley, 192, 193; Chittenden, 322; Davis, Florida, *Dorcasta obtusa*, J. New York ent. Soc. **27** p. 108; **Dawson, 420, 421; Dury, 481; Fall, 554, 555, 556; Fisher, 579, 580, 581, 582; Kerremans, 919; Leng, 1031; Mickel, 1153; Morris,** Keene, pp. 49–53 Canad. Ent. **51; Notman, 1222, 1223, 1224; Obenberger, 1234; Schaeffer, 1496; Sherman, 1589; Swaine, 1652; Timberlake, 1697; Van Dyke,** Western N. Amer. distribution, **1746a; Van Dyke, 1747; †Wickham, 1852, 1853; †Wickham, 1854,** Alaska, **1855.**

Hymenoptera.

Banks, 92, 93; Bequaert, 132; Bradley, 228; Bridwell, 240, 242; Brues, 256, 260; Burrill & Smith, 276; Cockerell, 352, 355, 356, 363; †Cockerell, 351, 357; Cushman, 409, 410, 411; Felt, 562; Gahan, 639, 640, 642, 643, 644; Hall, 725; Kieffer, 928, 930; †Kinsey, 946; MacGillivray, 1088; Martin, California, *Schisax senex*, Ent. News **30** p. 231; **Meusebeck, 1147; Mocsáry, 1161; Phillips & Emery, 1314; Rohwer, 1450, 1452, 1453; Sladen, 1599; Stevens, 1629; Timberlake, 1696; Weld, 1832; Wheeler, 1842, 1844.**

Lepidoptera.

Barnes & Lindsey, 99; Barnes & McDunnough, 100; Bowman, 225; Braun, 232, 233; Busck, 278, 280; Clark, 330, 331; Comstock & Comstock, 381; Dyar, 487, 495; Gunthrop, Kansas, *Eresia texana*, p. 257 Canad. Ent. **51; Hampson, 730; Heinrich, 772, 773; Meyrick, 1151; Meyrick,** Alberta, *Orneodes huebneri*, p. 108 Ent. mo. Mag. **55; Ottolengui, 1262; Seitz, 1571; Skinner, 1597; Snyder & Shannon, 1608; Watson,** New York *Rhopalocera*, J. New York ent. Soc. **27** p. 342 & 343; **Woodruff, 1877.**

Neuroptera.

Banks, 85.

Diptera.

Aldrich, 8, 9, 10; Alexander, 11, 14, 15, 17, 18, 20; Bequaert, 133; Brues, 264; †Cockerell, 340; Cole, 372; Colè & Lovett, 376; Cresson, 396; Dyar, 484, 486, 490; Felt, 558, 563, 564; Greene, Yukon riv., **698; Johnson, 884, 886; Kieffer, 934; McAtee, 1081; McAtee & Walton, 1082; Malloch, 1094, 1095, 1096, 1097, 1098, 1100, 1101, 1102, 1103, 1104, 1105,** Labrador **1106; Mosier & Snyder, 1186, 1187; Parker, 1288, 1289, 1290; Reinhard, 1385; Smith,** Indiana, *Syrphidae* p. 273 Canad. Ent. **51; Sturtevant, 1649; Townsend, 1705; Van Duzee, 1743, 1745, 1746.**

Heteroptera.

Drake, 468, 469; Ferris, *Hesperoctenes*, **574; Gibson, 669, 670; Hart & Mallock, 740; Knight, 964, 965, 966, 967, 968, 969, 970; McAtee, 1075, 1078; Olsen, 1247; Parshley,** New England, Canad. Ent. **51** p. 70-72; **Poppius, 1348, 1349; Van Duzee, 1744.**

Homoptera.

Baker, 72, 73; Davis, 416, 417, 418, 419; Ferris, 567, 572, 573; Funkhouser, 636; Gibson, 667; Herbert, 790; McAtee, Nova Scotia, **1079; Davidson, 414; Wilson, 1870, 1871, 1872; Woodruff, 1878.**

Thysanoptera.

Bagnall, Canada, **68; Ross,** Ontario, *Taeniothrips inconsequens*, p. 85 Canad. Ent. **51; Treherne, 1710.**

Lipoptera.

Baker, 76.

Ellipoptera.

Ferris & Nuttall, 575.

Paraneuroptera.

Calvert, 288; Howe, 842, 843, 844; Kennedy, 915.

Orthoptera.

Hebard, 754, 755; Morse, 1180, 1181; Rehn, 1382, 1383; Rehn & Hebard, 1384; Walker, 1797.

Aptera.

Folsom, *Collembola,* 593.

Central America.

Coleoptera.

Arrow, 45; Barber, 94; Benick, 129; Bernhauer, 153; Grouvelle, 715; Kerremans, 919; Notman, Lower California, 1223; Obenberger, 1233, 1234, 1239; Pic, 1316; Spaeth, 1612, 1613.

Hymenoptera.

Cockerell, 342, 343, 346, 352; Grandi, 691; Enderlein, 528, 529; Mocsáry, 1161; Szépligeti, 1666; Timberlake, 1696.

Lepidoptera.

Clark, 329, 330, 331; Dognin, 461; Dyar, 487, 488, 494; Hampson, 730; Kaye, 903; Seitz, 1571; Skinner, 1596.

Neuroptera.

Banks, 85.

Diptera.

Alexander, 16; Becker, 109; Cresson, 396; Dyar, 490; Dyar & Knab, 496; Kieffer, 934; Ludlow, 1064; Stein, 1627; Townsend, 1705; Van Duzee, 1743, 1745, 1746.

Hemiptera—Heteroptera.

Gibson, 665, 670; Horváth, 838.

Hemiptera—Homoptera.

Davis, Lower California, 417; Gibson, 668.

Paraneuroptera.

Calvert, 289, 290; Ris, 1427.

Orthoptera.

Chopard, 326; Hebard, 752, 753, 754; Karny, 896; Rehn, 1382.

Antilles. Incl. Bermudas, excl. Trinidad and Tobago.

Insecta, collectively.

Stoner, Barbados & Antigua, 1635.

Coleoptera.

Benick, 129; Bickhardt, Guadeloupe, 178; Grouvelle, 175; Holland & Schwarz, 806; Obenberger, 1232; Pic, 1316.

Hymenoptera.

Cockerell, 342; Brues, Hayti, 263; Kieffer, 928, 930.

Lepidoptera.

Clark, 329, 331; Dyar, 487; Hampson, 730.

Neuroptera.

Lacroix, 1002.

Diptera.

Alexander, 16; Cole, 372; Dyar, 490; Dyar & Knab, 496; Johnson, 883.

Hemiptera.

Gibson, 666; Heidemann & Osborn, 763; Poppius, 1349.

Paraneuroptera.

Calvert, 288.

South America, including Trinidad.

Coleoptera.

Achard, 2; Aurivillius, 52; Benick, 129; Bernhauer, 153, 155; Bickhardt, 170, 176; Blair, 186; Bodkin, 194; Bruch, 255c, 255d, 255e, 255g, 255h, 255k; Desbordes, 433; Grouvelle, 708a, 715; Kerremans, 919; Kleine, 954; Melzer, 1134; Obenberger, 1233; d'Orchymont, 1254; Peschet, 1304; Pic, 1316, 1317, 1318, 1320, 1322; Portevin, Chile, 1355; Spaeth, 1611, 1613, 1614; Wasmann, 1814, 1815; Wichmann, 1850, 1851.

Hymenoptera.

Bruch, 255a, 255b, 255f, 255i; Cockerell, 343, 344, 346, 352, 362;

Enderlein, 528, 529, 530; Gahan, Trinidad, **644; Gallardo, 646, 647, 648, 649; Holmberg, 812; Mocsáry, 1161; Rohwer,** Trinidad, **1454; Santschi, 1487; Szépligeti, 1665, 1666; Timberlake, 1696; Wheeler,** Tobago isld., **1845.**

Lepidoptera.

Clark, 329, 330, 331; Dognin, 461, 462; Dyar, 487, 488; Giacomelli, 663; Hall, 724; Hampson, 730; Jörgensen, 882; Kaye, 902, 903, 904; Le Cerf, 1024; Lindsey, 1050; Mengel, 1136; Meyrick, 1151; Prout, 1370, 1371; Riley, 1423; Rothschild, 1461; Schaus, 1498; Seitz, 1571; Talbot, 1669.

Trichoptera.

Banks, 85.

Neuroptera.

Banks, 85; Navas, 1205.

Diptera.

Alexander, 16; Becker, 109; Bezzi, 167; Bonne-Wepster & Bonne, 209, 211, 212; Cole, 375; Dyar, 485, 489, 490, 492; Dyar & Knab, 496; Frey, 607; Johnson, 883; Kahl, 894; Kertész, 921, 923, 925; Kieffer, 934; Rübsaamen, 1474; Schmitz, 1506; Stein, 1627; Tavares, 1671, 1672; Townsend, 1705.

Hemiptera—Heteroptera.

Bergroth, 145; Breddin, 235; Gibson, 669, 670; Horváth, 828, 835, 838; Poppius, 1352.

Hemiptera—Homoptera.

Enderlein, 533; Funkhouser, 637; Hempel, 781; Morrison, 1178, 1179; Muir, 1194.

Thysanoptera.

Bagnall, 68; Brèthes, 236a.

Embioptera.

Navás, 1204.

Paraneuroptera.

Ris, 1426, 1427.

Orthoptera.

Chopard, 326; Hebard, 756; Karny, 896.

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Anommatonia **subg. n.** vide *Aenictonia.* Wasmann 1915

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Disticta **gen. n.** p. 184 near *Tetrasticta, capritermitis* **sp. n.** Sumatra p. 185 pl. iv. f. 12, WASMANN T.c. 1916.

Dolicaon laevicollis **sp. n.** E. Africa p. 131, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Dorylogaster clavicornis p. 103 pl. iii. f. 2, *kohli* f. 1, **spp. n.** Africa, WASMANN Ent. Mitt. **5** 1916.

Dorylogastrini trib. n. p. 103 ID. t.c.

Dorylopora, table including *Aenictonia minor* Eichelb., WASMANN p. 203 Ent. Mitt. **4** 1915.

Doryloxenus ceylonicus Ceylon p. 175 fig., *peradenyiae* Ceylon fig. *splendidus* Ceylon fig., *butteli* Ceylon fig., p. 175, *eutermitis* Khandala fig. p. 176, **spp. n.,** WASMANN Zool. Jahrb. Jena Abt. System. **39** 1916.

Eleusis quadripunctata p. 553, *madagascariensis* p. 554, Madagascar **spp. n.,** BERNHAUER in Voeltzkow Reise in Ostafrika **3** 1917.

Espeson gigantulus **sp. n.** Usambara p. 97, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Eurycnemus regalis p. 150, *princeps* p. 151, **spp. n.** Cameroons, BERNHAUER T.c.

Falagria madurensis **sp. n.** India p. 256, BERNHAUER Ent. Bl. **11** 1915.

Gyrophaena aenescens, convexicollis, **spp. n.** Africa p. 157, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Hamitopsenius **gen. n.** p. 198, *Trichopsenini, caudatus* **sp. n.** Sumatra with *Hamitermes* p. 201 pl. iv. f. 17, WASMANN Zool. Jahrb. Syst. **39** 1916.

Hesperus belonychiformis, africanus, p. 145, *mirus* p. 146, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Hoplandria & Coenonica, characters and position, CAMERON p. 230 Ent. Mo. Mag. **55.**

Lathrobium tenebrosum p. 99, *humile* p. 100, **spp. n.** Ontario, NOTMAN J. New York ent. Soc. **27.**

Leptusa serullazi **sp. n.** Grande-Chartreuse p. 262, DEVILLE Bull. Soc. ent. France **1919.**

Leucocraspedum nigrum **sp. n.** Singapore p. 243, CAMERON Tr. ent. Soc. London **1918.**—*L. horni* **sp. n.** Ceylon p. 256, BERNHAUER Ent. Bl. **11** 1915.

Lispinus splendens p. 95, *ferrugineus, opacipennis, usambaricus* p. 96, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.—*L. madurensis, longipennis,* **spp. n.** India p. 251, BERNHAUER Ent. Bl. **11** 1915.

Medon opacus Madagascar, *katonae*, p. 127, *magniceps*, *aquatilis*, p. 128, *silvestris*, *humeralis*, *moschianus*, p. 129, *M.* (*Lithocharis*) *parochraceus*, *dimidiatipennis*, p. 130, Africa, **spp. n.**, BERNHAUER Ann. Mus. Hungar. **13** 1915.—*M.* (*Charichirus*) *ceylonicus* p. 228, *M. championi* p. 251, *basalis* p. 252, **spp. n.** Ceylon, CAMERON Ent. Mo. Mag. **55**.

Megalops seriatus p. 192, *kolbei* p. 193, *M.* (*Stylopodus* subg. n. p. 190), *bisulcatus* p. 293, **spp. n.** Mexico, BENICK Ent. Bl. **13** 1917.

Megarthropsis **gen. n.** p. 231 *Megarthropsini* new group, *decorata* **sp. n.** Singapore p. 232, CAMERON Tr. ent. Soc. London **1918**.

Meocerus abessinus **sp. n.** Harrar p. 46, BERNHAUER Ent. Bl. **13** 1917.

Methneria **gen. n.** p. 180, near *Zyras* ? *paradoxicornis* **sp. n.** E. Africa p. 181, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Microglossa pulla, larva, figs., FALCOZ p. 296–301 Bull. Soc. ent. France **1919**.

Mimocyptus **gen. n.** *Tachyporini*, *globulus* **sp. n.** Singapore, CAMERON p. 241 Tr. ent. Soc. London **1918**.

Mimogonus africanus, p. 104, *methneri*, *continentalis*, p. 105, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Mitomorphus nigerrimus **sp. n.** Madura p. 253, BERNHAUER Ent. Bl. **11** 1915.

Mycetoporus (*Ischnosoma*) *kilimandscharensis* p. 151, *abessinus* p. 152 **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.—*M.* (*Ischnosoma*) *virginicus* p. 249, *M. curtipennis* p. 250, **spp. n.** U.S., BERNHAUER Ent. Bl. **13** 1917.

Myllaena faberensis **sp. n.** Singapore p. 244, CAMERON Tr. ent. Soc. London **1918**.

Myrmecosaurus vagans **sp. n.** Argentina p. 213, WASMANN Ent. Blatt. **14** 1918.

Myrmedonia robusta, *dollmani*, p. 84, *donisthorpei*, *spatha*, *rhodesiana*, p. 85, *seminigra* p. 86, **spp. n.** Rhodesia, CAMERON Ent. Rec. **31**.—*M. geminata*= (*apicicornis* W. = *Z. perversus* Bernh.) p. 71, *schmalzi* p. 72, *bruchiana* p. 214, **spp. n.** Amer. mer., WASMANN Ent. Blatt. **14** 1918.

Neobisnius rufipennis **sp. n.** Ceylon p. 252, CAMERON Ent. Mo. Mag. **55**.

Nudobius coloriventris p. 133, *abessinus*, *proximus*, *N.* (*Pedinolinus*) *praecellens*, p. 134, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Ocalea (*Pachorhopala* subg. n.) *africana* **sp. n.** p. 186, BERNHAUER T.c.

Ocyplanus = (*Dorylonia* W.) p. 136, *kohli* **sp. n.** with *Anomma* in the Congo p. 137 pl. iii. f. 5, WASMANN Ent. Mitt. **5** 1916.

Ocyusa pellax **sp. n.** Algeria p. 71, PEYERIMHOFF Bull. Soc. ent. France **1919**.

Oligolinus excellens **sp. n.** Madura p. 253, BERNHAUER Ent. Bl. **11** 1915.

Oncogenys **nom. n.** for *Oncophorus* Epp., CHAMPION p. 154 Ent. mo. Mag. **55**.

Ophryomedon **gen. n.** p. 202 near *Medon*, *crenatus* **sp. n.** Selangor p. 204 pl. iv. f. 18, WASMANN Zool. Jahrb. Syst. **39** 1916.

Osorius usambarae p. 103, *linearis* p. 104, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.—*O. punctifrons* p. 555, *murecarius*, *schusteri*, p. 556, *crenifrons* p. 557, **spp. n.** Madagascar, BERNHAUER Voeltzkow Reise in Ostafrika **3** 1917.

Oxypoda grandicollis, *ussureana*, p. 187, *rudicollis* p. 188, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.—*O.* (*Bessopora*) *saturata* p. 332, *arverna* p. 333, **spp. n.** France, PEYERIMHOFF Bull. Soc. ent. France **1919** 1920.—*O. opaca* abnormal antennae p. 215, UHMANN Ent. Mitt. **8**.

Oxypodera **subg. n.** vide *Atheta*. Bernhauer 1915.

Oxytelus (*Caccoporus*) *daressalamensis*, *aquatilis*, p. 98, *O.* (*Epomotylus*) *fulgens*, *abessinus*, p. 99, *O.* (*Onotylus*) *kristenseni* p. 100, *O. mirus*, *bacillus*, p. 101, *plasoni* p. 102, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.—*O. insecatus* and *Lamprinus saginatus* with ants, NICHOLSON p. 136 Ent. mo. Mag. **55**.

Pachorhopala **subg. n.** vide *Ocalea*. Bernhauer 1915.

Paederus rufofasciatus p. 115, *aquaticus, rufiventris, spectabilis,* p. 116, *subopacus, viridipennis,* p. 117, *purpuripennis* p. 118, **spp. n.** Africa, *fuscipes* var. n. *nigrolineatus* p. 118, BERNHAUER Ann. Mus. Hungar. **13** 1915.—*P. comorensis* **sp. n.** Gross Comoro p. 557, BERNHAUER in Voeltzkow Reise in Ostafrika **3** 1917.

Paraphytosus; labium, correction, CAMERON p. 32 Ent. mo. Mag. **55.**

Perostylus **subg. n.** of *Megalops* for *M. praeditus* Sharp, BENICK p. 190 Ent. Bl. **13** 1917.

Phanolinus chiriquensis **sp. n.** Panama p. 13, BERNHAUER Ent. Zs. Frankf. **29** 1915.

Philonthus gigas p. 136, *robusticornis, aethiops,* p. 137, *haematodes, kristenseni,* p. 138, *methneri, pulcherrimus,* p. 139, *testaceocinctus* p. 140, *lacustris, parcipennis, magnicollis,* p. 141, *nigrocinctus, aethiopicus,* p. 142, *interocularis, P.* (*Gabrius*) *minutissimus, katonae,* p. 143, *neobisniformis* p. 144, **spp. n.** Africa, *P. peregrinus* var. n. *pustulatus* p. 140, BERNHAUER Ann. Mus. Hungar. **13** 1915.—*P. csikii* **sp. n.** E. Africa p. 46, BERNHAUER Ent. Bl. **13** 1917.—*P. tripunctatus, pubipennis,* p. 253, *versicolor* p. 254, **spp. n.** Ceylon, CAMERON Ent. Mo. Mag. **55.**—*P. donckieri* Madura, *borneensis* Sarawak, p. 254, *madurensis* p. 255, **spp. n.**, BERNHAUER Ent. Bl. **11** 1915.

Philothalpus lemoulti **sp. n.** Guiana p. 14, BERNHAUER Ent. Zs. Frankf. **29** 1915.

Phloeopora africana **sp. n.** p. 186, BERNHAUER Ann. Mus. Hungar. **13** 1915.—*P. angustiformis,* SHARP p. 106 Ent. mo. Mag. **55.**

Phucobius Sh. = (*Orthidus* Rey), *congruus* Walk., CAMERON p. 207 Ent. Mo. Mag. **55.**

Pinophilus robustus p. 112, *puguensis, abessinus,* p. 113, *rudis, abnormalis,* p. 114, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Planeustomus tropicus **sp. n.** Africa p. 97, BERNHAUER T.c.—*P. longiceps* p. 154, *bengalensis* p. 155, *subcarinatus* p. 156, **spp. n.** India, CHAMPION Ent. mo. Mag. **55.**

Plociopterus chlorocephalus, columbinus, **spp. n.** Am. mer. p. 22, BERNHAUER Ent. Bl. **13** 1917.

Priochirus subconvexus p. 554, *voeltzkowi,* Comoren p. 554, **spp. n.**, BERNHAUER in Voeltzkow Reise in Ostafrika **3** 1917.

Pronomaea leontopolitana **sp. n.** Singapore p. 245, CAMERON Tr. ent. Soc. London **1918.**

Pseudoperinthus **gen. n.** p. 189 and 194 *Aleocharini, malyanus* **sp. n.** Sumatra p. 195 pl. iv. f. 16, WASMANN Zool. Jahrb. Syst. **39** 1916.

Pygostenus wasmanni p. 152, *methneri, daressalamensis,* p. 153, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Quediis (*Sauridus*) *sexpunctatus* **sp. n.** Cape Good Hope p. 47, BERNHAUER Ent. Bl. **13** 1917.—*Q.* (*Sauridus*) *parvipennis* **sp. n.** Alberta p. 249, BERNHAUER T.c.—*Q. pallipes* Luc. = (*hammianus* Sh.), DEVILLE p. 198 Ent. Mo. Mag. **55.**

Schistogenia methneri, **sp. n.** E. Africa p. 162, BERNHAUER Ann. Mus. Hungar. **13** 1915.—*S. dollmani* **sp. n.** Rhodesia p. 83, CAMERON Ent. Rec. **31.**

Scopaeus linearis **sp. n.** Ontario p. 100, NOTMAN J. New York ent. Soc. **27.**

Somoleptus columbiens **sp. n.** Colombia p. 13, BERNHAUER Ent. Zs. Frankf. **29** 1915.

Staphylinus methneri, kristenseni, p. 148, *banghaasi* p. 149, *fraternus* p. 150, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Stenaesthetus africanus **sp. n.** p. 106, BERNHAUER T.c.

Stenus hilfi Bulgaria p. 225, *corsicus* p. 228, *velebiticus* Ostaria p. 230, **spp. n.**; *maculiger* var. n. *consanguineus, ater* ab. n. *testaceipes,* p. 225, *erichsoni* var. n. *jailensis, coarcticollis* var. n. *validus,* p. 229; male genitalia figs. p. 226, BENICK Ent. Bl. **11** 1915.—*S. aethiopicus* p. 106, *borodanus, usambarae* p. 107, *kaguruensis, S.* (*Hypostenus*) *regalis,* p. 108, *diana* p. 109, *continentalis, utzungweanus, quadrispinus* p. 110, *angustiventris, uluguruensis* p. 111, *matumbiensis* p. 112, **spp. n.** Africa, BERNHAUER Ann.

Mus. Hungar. **13** 1915.—*S. albidicornis* **sp. n.** India p. 252, BERNHAUER Ent. Bl. **11** 1915.—*S. rectifrons* Peru p. 294, *vermicularis* p. 295, *perrugosus* p. 297, *S.* (*Tesnus*) *facetus* p. 298, Colombia, *S.* (*Hypostenus*) *antillensis* Guadeloupe p. 301, *fastigialis* p. 302, *capillaceus* p. 303, *cinereus*, p. 304, Colombia, *distinctus* Ecuador p. 305, *tuberosicollis* p. 307, *fulgens* p. 308, Colombia, *lacertosus* Sumatra p. 311, *squamosus* p. 312, *postnotatus* p. 313, Colombia, **spp. n.**, BENICK Ent. Bl. **13** 1917.

Stilicus spectabilis p. 121, *punctipennis*, *moschiensis* p. 122, *alienus*, *uniformis*, *laevipennis* p. 123, *uluguruensis*, *clarissimus*, p. 124, *hypsibathus*, *katonae* p. 125, *magniceps* p. 126, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Stylopodus **subg. n.** vide *Megalops*.

Tachyporus calidus p. 156, *silvestris* p. 157, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Taenodema giganteum **sp. n.** Costa Rica p. 13, BERNHAUER Ent. Zs. Frankf. **29** 1915.

Termitobiella **gen. n.** near *Tetrasticta*, *setipes* **sp. n.** Selangor pl. iv. f. 14, WASMANN p. 187 Zool. Jahrb. Syst. **39** 1916.

Termitodiscus butteli **sp. n.** Ceylon with *Odontotermes* pl. iv. f. 10, *escherichi* var. n. *picea*, WASMANN p. 182 T.c.

Termitotima **gen. n.** near *Termitoptochus*, *assmuthi* sp. n. Bombay not described, WASMANN p. 188 T.c.

Thlibopleurus **gen. n.** p. 162 *Myrmedoniini*, *kristenseni* sp. n. Abyssinia p. 163, BERNHAUER Ann. Mus. Hungar. **13** 1915.

Tinotus minutus **sp. n.** E. Africa p. 158, BERNHAUER T.c.

Trogophloeus (*Thinodromus*) *lewisi* p. 224), T. (*Biopinus*) *peregrinus*, *T. nitidipennis*, p. 225, **spp. n.** Ceylon, CAMERON Ent. Mo. Mag. **55**.

Xanthopygus dimidiatus **sp. n.** Bolivia p. 23, BERNHAUER Ent. Bl. **13** 1917.

Zyras bipustulatus, *superbus* p. 164, *fabulosus*, *phaenominalis* p. 165, *abessinus*, *mirabilis* p. 166, *daressalamensis* p. 167, *regalis*, *imperialis* p. 168, *linki* p. 169, *arrogans*, *cicatricosus* p. 170, *trisulcatus*, *wichmanni*, *hector* p. 171. *punctiventris* p. 172, *kristenseni*, *lomechusinus* p. 173, *lucernus*, *notandus*, p. 174, *usambarae* p. 175, *bisulcatus* p. 176, *csikii* p. 177, *panganianus*, *escherichi*, p. 178, *lioglutoides* p. 179, **spp. n.** Africa, BERNHAUER Ann. Mus. Hungar. **13** 1915.

PSELAPHIDAE.

Amaurops aubei monstruosipes p. 180 pl. iii f. 6, *sulcatula* var. n.p. 182, *diecki dentibasis* subsp. n. p. 182, *denticulata* **sp. n.** Sardinia p. 183 f. 7, *sardoa aritzensis* subsp. n. p. 184 with var. *macrocephala*, *aculeata* f. 9 p. 185, *longipes* f. 10 p. 186, **spp. n.**, Sardinia, DODERO Ann. Mus. Genova **48**.

Amauropus **gen. n.**, *lobipes* **sp. n.** Albania, REITTER p. 202 Ent. Bl. **14** 1918.

Aphanogramme **subg. n.** vide *Trimium*.

Articerus subcylindricornis p. 168 pl. xxv f. 4, *mesosternalis* p. 170 ff. 7–8, Western Australia, *wilsoni* Victoria p. 169 ff. 5–6, **spp. n.**, LEA Trans. R. Soc. S. Aust **43**.

Brachygluta abrupta p. 194 pl. iv f. **sp. n.** Sicily, DODERO Ann. Mus. Genova **48**.

Bythinus mimus **sp. n.** Italy pl. iv f. 2, *oreophilus judicariensis*, *difficilis* varr. n. *odontogena* fig. 4, *subdentatus* and *pachymerus* p. 197 *bulbifer* ab. n. *elegantulus* p. 199, *argodi liguricus* subsp. n. p. 200 f. 5, *B.* (*Macrobythus*) *redemptus* p. 201 f. 6, *vicinus* f. 7, *mancinii* f. 8, p. 202 with var. *conformis*, *B.* (*Bythinopsis*) *tibialis* p. 206 f. 11, *thermalis* p. 207 f. 12, *triangulifer* p. 208 f. 13, *B.* (*Trogobythus*) *gularis* p. 209 f. 14, *crassitarsis* p. 211 f. 15, **spp. n.** Italy, *B.* (*Apobythus*) *damryi* varr. n. *arquoriensis* p. 211 and *macrops* p. 212, *aymerichi* var. n. *lapidicola* p. 212 f. 16, *foveipennis* p. 213 f. 17, *andreinii* p. 214, *B.* (*Bythoxenus*) *propomacrus* p. 217, Italy, *mirandus* Sardinia p. 216 f. 18, **spp. n.**, DODERO T.c.—*B.* (*Lophobythus*) *bidentatus* **sp. n.** France p. 243 pl. iv f. 20 with var. *aubertanus* p. 244, DODERO T.c.—*B. erichsoni* var n. *muliebris*, KÜNNEMANN p. 126 Ent. Bl. **15**.

Chennium insulare **sp. n.** Sardinia p. 240, DODERO Ann. Mus. Genova **48**.

Leanymus mirus sp. n. Queensland, LEA Trans. R. Soc. S. Aust. **43** p. 167 pl. xxv ff. 1–3.

Machaerites (*Bythoxenus*) *bordei* sp. n. Algeria p. 72, fig., PEYERIMHOFF Bull. Soc. ent. France **1919**.

Pselaphus insulcatus p. 229 pl. iii f. 16, *sardous* p. 231 f. 17 with var. *banariensis*, Sardinia, *grajus* p. 232, *cottianus* p. 233, Italy, spp. n., DODERO Ann. Mus. Genova **48**.—*P. paganettii* Spain p. 248, *provincialis* Frejus p. 249, *P.* (*Pselaphostomus*) *bussacensis* Spain p. 247, spp. n., DODERO T.c.

Pygoxyon obesum sp. n. Piedmont p. 174 pl. iii f. 1, DODERO T.c.

Trimium (*Aphanogramme* subg. n.) *asturicum* sp. n. Leon p. 242, DODERO T.c.

Trogasteropsis gen. n. p. 176, *coecus* p. 178 pl. iii f. 2, *aglenus*, *anillus* p. 179, Sardinia, *anophthalmus* pl. iii f. 4 p. 180 Barcelona, spp. n., DODERO T.c.

Tychus tritomus Sardinia p. 218 pl. iii f. 11, *aretinus* p. 219, *cossyrensis* p. 220, *pulcherrimus* p. 222 f. 12 Italy, *confusus* Sardinia p. 223 f. 13, spp. n., DODERO T.c.—*T. hermonis* sp. n. Palestine p. 245 pl. iii f. 15, DODERO T.c.

Zoufalia gen. n. p. 201 for part of *Bergrothia*, REITTER Ent. Bl. **14** 1918.

SCYDMAENIDAE.

Cephennium weingaertneri sp. n. Croatia, REITTER Col. Rundsch. 1916 No. 4/6.

SILPHIDAE.

Acanthopsilus subg. n. for *Necrophorus concolor* Kr., PORTEVIN p. 223 Ann. Soc. ent. Belgique **58** 1914.

Agathidium; structural notes, VATERNAHM p. 282–284 Zeitschr. wiss. Insbiol. **14**.

Agathidium (*Cyphocebe*) *edoughense* sp. n. Algeria p. 198, PORTEVIN Ann. Soc. ent. Belgique **58** 1914.

Bathysciola obermaieri sp. n. Spain p. 447 figs 1–4, BOLIVAR Bol. Soc. Españ. Hist. Nat. **18** 1918.

Brachyloma gen. n. near *Pteroloma*, *curtum* Japan, p. 218, *sinense* Yunnan p. 219, spp. n., PORTEVIN Ann. Soc. ent. Belgique **58** 1914.

Catopodes gen. n. p. 214 for *Catops fuscicornis kr.*, PORTEVIN T.c. 1914.

Catops apicalis p. 216, *angustipes* p. 217, spp. n. Japan, PORTEVIN T.c.

Cnemopsilus gen. n. near *Catops*, *femoratus* sp. n. New Zealand fig., PORTEVIN p. 190 T.c. 1914

Colon elongatum sp. n. Ontario p. 98, NOTMAN J. New York ent. Soc. **27**.

Dolichocatops gen. n., *schenklingi* sp. n. New Zealand fig. PORTEVIN p. 191 Ann. Soc. ent. Belgique **58** 1914.

Estadia sicardi Madagascar, *nitidicollis*, p. 200, *strigifrons* p. 201, Natal, spp. n., PORTEVIN T.c.

Euryspeonomus subg. n. *vide Speonomus*. Jeannel.

Eunemadus gen. n. near *Nemadus*, *chilensis* sp. n. Chile, PORTEVIN p. 192 T.c. 1914

Hydnobius ciliatus sp. n. Algeria p. 197, PORTEVIN T.c.—*H. contractus* sp. n. India p. 240, CHAMPION Ent. Mo. Mag. **55**.

Nargus albanicus ab. n. *ruficollis*, REITTER p. 42 Ent. Bl. **14** 1918.

Necrophorus vespilloides varr. n. *fractus*, *borealis* and *subfasciatus*, *vestigator* varr. n. *bipunctatus* and *obscuripennis*, p. 195, *antennatus* var. n. *centralis* p. 196, PORTEVIN Ann. Soc. ent. Belgique **58** 1914.—*N. maculifrons* ab. n. *binderi*, ROUBAL p. 169 Ent Bl. **11**, 1915.

Paracatops brouni sp. n. New Zealand p. 192, PORTEVIN, Ann. Soc. ent. Belgique **58** 1914.

Pseudonemadus gen. n. for part of *Ptomaphagus*, *nigricornis* sp. n. Australia and Tasmania, PORTEVIN p. 193 T.c. 1914

Ptomaphaginus gen. n. near *Ptomaphagus*, *longitarsis* sp. n. Ceylon, PORTEVIN p. 194 T.c. 1914.

Ptomascopus morio var. n. *lewisi* p. 223, PORTEVIN T.c.

Ragytes gen. n. near *Agyrtes*, *luteipes* sp. n. New Zealand fig., PORTEVIN p. 196 T.c. 1914

Silpha inaequalis, habits, GOE Ent News **30** p. 253–255.

Speocharidius **gen. n.** *Bathysciinae* p. 130, *breuili* (type) p. 131, fig. 1, *bolivari* p. 133, *filicornis* p. 134, **spp. n.**, Spain, JEANNEL Bol. Soc. Españ. **19.**

Speonomus (*Euryspeonomus* **subgen. n.**) *Bathysciinae* p. 134, type *breuli* **sp. n.** Spain p. 135, fig. 2, JEANNEL T.c.

Thanatophilus subrugosus, irregularis, **spp. n.** Japan p. 221, PORTEVIN Ann. Soc. ent. Belgique **58** 1914.

TRICHOPTERYGIDAE.

Microptilium palustre **sp. n.** Hungary KUNTZEN p. 163 Ent. Bl. **10** 1914.

Ptinella cretica **sp. n.** p. 76, OBENBERGER Ent. Bl. **13** 1917.

Rodwayia intercoxalis **sp. n.** Queensland, LEA Trans. R. Soc. S. Aust. **43** p. 174 pl. xxv f. 13.

SCAPHIDIIDAE.

Baeocera kapfereri **sp. n.** Tunis p. 42, REITTER Ent. Bl. **11** 1915.—*B. bicolor* **sp. n.** Argentina p. 351, with var. *diluta* p. 352, ACHARD Bull. Soc. ent. France **1919** 1920.

Scaphosoma antennatum p. 362, *minutum* p. 363, **spp. n.** Sikkim, ACHARD T.c.

Scaphosoma bonariense **sp. n.** p. 350 with varr. *rubromaculatum, intermedium* and *deficiens*, p. 351, ACHARD T.c.

Toxidium minutum **sp. n.** Sikkim p. 364, ACHARD T.c.

HISTERIDAE.

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Phelister finitimus p. 242, *foveipygus*, *pygmaeus*, p. 243, **spp. n.** Amer. mer., BICKHARDT Ent. Bl. **14** 1918.

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NITIDULIDAE.

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Amphicrossus vicinus **sp. n.** Argentina p. 245, GROUVELLE Rev. Mus. La Plata **23** 1916.

Apria **gen. n.** p. 49, *singularis* p. 50, *peringueyi* p. 51, **spp. n.** S. Africa, GROUVELLE Mém. ent. **2.**

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Brachyleptus discolor var. n. *rufipennis*, PIC p. 5 Echange **35.**

Brachypeplus (*Liparopeplus*) *acuminatus*, *B.* (*Leiopeplus*) *brunnescens*, *nitidior*, *opacinus*, **spp. n.** Africa p. 204, GROUVELLE Mitt. zool. Mus. Berlin **9.**

Campsopyga atricolor sp. n. Paraguay p. 241, GROUVELLE Rev. Mus. La Plata 23 1916.

Cillaeus (?) *expressus* sp. n. Argentina p. 239, GROUVELLE T.c.

Cryptarcha quadripunctata sp. n. Cameroons p. 205, GROUVELLE Mitt. zool. Mus. Berlin 9.—*C. castanescens* sp. n. Argentina p. 246, GROUVELLE Rev. Mus. La Plata 23 1916.

Epuraea ornatula sp. n. Ontario p. 102, NOTMAN J. New York ent. Soc. 27.

Lobiopa bruchi sp. n. Argentina p. 242, GROUVELLE Rev. Mus. La Plata 23 1916.

Macrostolops gen. n., *inusitatus*, p. 236, *singularis* p. 238, spp. n. Paraguay GROUVELLE T.c. 1916.

Meligethes curtus p. 52, *singularis* p. 53, S. Africa spp. n. GROUVELLE Mém. ent. 2.

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Rhizophagus serricollis sp. n. Crete p. 76, OBENBERGER Ent. Bl. 13 1917.

Teloconus gen n., *mirificus* sp. n. Argentina GROUVELLE p. 234 Rev. Mus. La Plata 23 1916.

TROGOSITIDAE, OSTOMIDAE.

Ancyrona difficilis, *fallax*, p. 206, *caelata*, *kolbei*, p. 207, *scutellaris*, *amoena* p. 208, *ambigua*, *minima*, p. 209, spp. n. Africa, GROUVELLE Mitt. zool. Mus. Berlin 9.—*A. argentina* sp. n. Argentina p 248, GROUVELLE Rev. Mus. La Plata 23 1916.

Gymnochila rotundicollis sp. n. Spanish Guinea p. 209, GROUVELLE Mitt. zool. Mus. Berlin 9.

Peltocymba n. n. for *Cymba* Sdl., REITTER p. 220 Ext. Bl. 15.

Thymalus indicus sp. n. p. 241 CHAMPION Ent. Mo. Mag. 55

COLYDIIDAE.

Agelandia hummleri sp. n. Italy p. 58, OBENBERGER Ent. Bl. 14 1918.

Anommatus mostarensis p. 40, *zoufali* Bosnia, *A.* (*Paranommatus*) *beszedesi* Istria, p. 41, REITTER Ent. Bl. 11 1915.

Bothrideres (*Pseudobothrideres*) *subcostatus*, *notabilis*, spp. n. Spanish Guinea p. 211, GROUVELLE Mitt. zool. Mus. Berlin 9.—*B. contractus*, cocoon, BURKE p. 123 Pr. ent. Soc. Washington 21.

Cerylon substriatum sp. n. Spanish Guinea p. 212, GROUVELLE Mitt. zool. Mus. Berlin 9.—*C. wagneri* p. 253, *patens* p. 254, spp. n. Argentina, GROUVELLE Rev. Mus. La Plata 23 1916.

Cicones latus sp. n. Spanish Guinea p. 210, GROUVELLE Mitt. zool. Mus. Berlin 9.

Dastarcus fairmairei sp. n. Africa p. 212, GROUVELLE T.c.

Euclarkia gen. n. near *Kershawia*, *costata* sp. n. Western Australia, LEA Trans. R. Soc. S. Aust. 43 p. 180 pl. xxv. f. 16.

Lithophorus tuberosus sp. n. Argentina p. 251, GROUVELLE Rev. Mus. La Plata 23 1916.

Machlotes imperfectus sp. n. Africa p. 211, GROUVELLE Mitt. zool. Mus. Berlin 9.

Microprius carinicollis sp. n. Rhodesia p. 54, GROUVELLE Mém. ent. 2.

Prolyctus iridescens sp. n. Argentina p. 249, GROUVELLE Rev. Mus. La Plata 23 1916.

Synchita lineatosquamosa sp. n. Spanish Guinea p. 210, GROUVELLE Mitt. zool. Mus. Berlin 9.

Teredolaemus major sp. n. India p. 241, CHAMPION Ent. Mo. Mag. 55.

Triboderus tessmanni sp. n. Spanish Guinea p. 211, GROUVELLE Mitt. zool. Mus. Berlin, 9.

CUCUJIDAE.

Airaphilus paganettii sp. n. Crete p. 60, OBENBERGER Ent. Bl. 14 1918.

Ancistria africana sp. n. Rhodesia p. 56, GROUVELLE Mém. ent. 2.

Cryptamorpha dumbrelli p. 39, *blackburni* p. 40, *leai* p. 42, *villosa* p. 44, spp. n., GROUVELLE T.c.

Hemipeplus suturalis sp. n. Spanish Guinea p. 205, GROUVELLE Mitt. zool. Mus. Berlin **9.**

Nausibius abnormis sp. n. Rhodesia p. 55, GROUVELLE T.c.

Prostomis elburica sp. n. Persia p. 211, FLEISCHER Ent. Bl. **15.**

Psammoecus lineatus Perak p. 5, *concolor* Java p. 7, *brunnescens* p. 8, *signatus* p. 9, Mysol, *obesus* p. 11, *pascoei* p. 13, Ceram, *inflatus* p. 14 Perak, *marginatus* p. 16 Sumatra, *nitidior* p. 18 Java, *cephalotes* p. 20 N. Australia, *ornatus* p. 21 Waigiou, *crassus* p. 23 New Guinea, *tereticollis* p. 24 Bangai, *quadrinotatus* p. 26 Pulo Penang, *raffrayi* p. 28 Singapore, *decoratus* p. 29 Madura, *eximius* p. 31 Tonkin, *rotundicollis* Talang p. 33, *personatus* Madeira p. 34, *parallelus* Mashonaland p. 36, spp. n., GROUVELLE Mém. ent. **2.**

Silvanus (*Parasilvanus*) *pulcher* sp. n. Spanish Guinea p. 206, GROUVELLE Mitt. zool. Mus. Berlin **9.**

CRYPTOPHAGIDAE.

Acryptophagus gen. n. near *Hapalips*, *loberinus* sp. n. Bolivia, GROUVELLE p. 71 Mém. ent. **2.**

Antherophagus, phoresy, WHEELER p. 145-152 fig. Psyche **26.**—*A. microphthalmus* India p. 182, *ruficornis* Mexico p. 183, spp. n., GROUVELLE Mém. ent. **2.**

Bolerus gen. n. p. 92, *upicalis* p. 93, *bouchardi* p. 94, spp. n. Sumatra, GROUVELLE T.c.

Chiliotis longicornis Chile p. 170, *gigas* Patagonia p. 172, *germaini* p. 173, *exilis* p. 175, *gracilis* p. 176, *laticeps* p. 178 Chile, spp. n., GROUVELLE T.c.

Cnecosa, to *Erotylidae*, GROUVELLE p. 66 T.c.

Cryptophagops gen. n. for *Cryptophilus alluaudi* G., GROUVELLE p. 67 T.c.

Cryptophagus and *Micrambina*, synonymy of New Zealand spp., *baldensis* and allies, GROUVELLE pp. 67 and 68 T.c.

Cryptophagus longior Japan p. 184, *convexus* p. 187, *elegans* p. 188, *callosipennis* p. 191, *deceptor* p. 193, *subinermis* p. 194, *longiventris* p. 195, *longipennis* p. 196 Japan, *exilocornis* Yunnan p. 200, *sinuatus* Haiti p. 201, *atomarioides* Chile p. 202, spp. n., GROUVELLE T.c.—*C. brunneus* Gyll. to *Lyctidae*, q.v.

Diplocoelus costulatus to *Anobocoelus* GROUVELLE p. 66 Mém. ent. **2.**—*D. subjectus* n. n. for *Loberoschema oblonga* R., GROUVELLE p. 67 T.c.

Empocryptus subovalis sp. n. Bolivia p. 136, GROUVELLE T.c.

Glisonotha kolbei sp. n. Africa p. 213, GROUVELLE Mitt. zool. Mus. Berlin **9.**

Hapalips, taxonomy and description p. 73, *dux* Costa Rica p. 74, *major* p. 76, *intermedius* p. 77, Bolivia, *longior* Brazil p. 79, *curtus* Guiana p. 80, *setosus* Argentina p. 82, *simoni* Venezuela p. 83, *similis* p. 84, *angustus* p. 86, *cephalotes* p. 87, Brazil, spp. n., GROUVELLE Mém. ent. **2.**—*H. angulosus* and *guadalupensis* are sexes of one, GROUVELLE p. 66 T.c.

Henoticonus bouchardi sp. n. Sumatra p. 152, GROUVELLE T.c.

Itotomarus n. n. for *Tomarus* Lec., REITTER p. 220 Ent. Bl. **15.**

Loberina merged in *Hapalips*, GROUVELLE p. 66 Mém. ent. **2.**

Loberolus gen. n., *agilis* Madagascar p. 113, *cursor* Bolivia p. 114, spp. n., GROUVELLE T.c.

Loberoschema breviusculum p. 138, *trimaculatum* p. 139, *antennatum* p. 141, spp. n. Bolivia, GROUVELLE T.c.

Loberus laticollis Ivory coast p. 115, *simoni* Venezuela p. 117, *glabratus* Chile p. 118, *curticollis* Brazil p. 119, *luctuosus* Chile p. 121, *stultus* p. 122, *germaini* p. 124, *amabilis* p. 125, Bolivia, *excisus* Japan p. 126, *jucundus* p. 128, *gentilis* p. 129, Tonkin, *velox* Australia p. 131, spp. n., GROUVELLE T.c.

Loberus pictus Montr., taxonomy, GROUVELLE p. 67 T.c.

Micrambina basalis sp. n. Chile p. 180, GROUVELLE T.c.

Ocholissa peringueyi sp. n. S. Africa p. 58, GROUVELLE T.c.

Philophloeus, omitted from Catalogue, species synonymy, *P. oblongus* = (*Diplocoelus tesellatus* R.), GROUVELLE p. 67 T.c.

Platoberus testudo **sp. n.** Ega p. 112, GROUVELLE T.c.

Pseudohapalips capito **sp. n.** Guiana p. 70, GROUVELLE T.c.

Pseudohenoticus aenescens p. 154, *falcidens* p. 156, *viridiaeneus* p. 158, *triphylloides* p. 159, *aereus* p. 161, *brevicollis* p. 162, *brunneus* p. 164, *metallicus* p. 165, *castanescens* p. 166, *subparallelus* p. 167, **spp. n.** Bolivia, GROUVELLE T.c.

Setarella n. n. for *Setaria* Muls., REITTER p. 220 Ent. Bl. **15.**

Telmatophilus analis R. to *Micrambina*, *vestitus* and *olivaceus* Br. gen. dub., GROUVELLE p. 66 Mém. ent. **2.**

Thallisella simplex p. 97, *luteola* p. 99, *lepida* p. 100, *andicola* p. 101, *ampla* p. 103, *variegata* p. 105, *fuscocastanea* p. 106, *diluta* p. 108, *gounellei* p. 109, **spp. n.** Amer. mer., GROUVELLE T.c.

Toramus taprobanae p. 142, *setifer* p. 143, Ceylon, *setosellus* p. 145, *humeridens* p. 146, Tonkin, *chilensis* p. 147, *infimus* p. 149, *bellus* p. 150, Antilles **spp. n.**, GROUVELLE T.c.

MYCETOPHAGIDAE.

Mycetophagus bifasciatus **sp. n.** India p. 242, CHAMPION Ent. Mo. Mag. **55.**

DERMESTIDAE.

Trinodes hirtus, habits, WRADATSCH p. 290 Ent. Bl. **13** 1917 and WANKA p. 54 Ent. Bl. **14** 1918.

Trogoderma versicolor var. n. *reductum*, PIC p. 17 Echange **35.**

THORICTIDAE.

Thorictus paganettii **sp. n.** Crete, *grandicollis* var. n. *creticus*, OBENBERGER p. 77 Ent. Bl. **13** 1917.

PARNIDAE = DRYOPIDAE.

Dryops, notes on british, SHARP pp. 76–79 Ent. mo. Mag. **55**; list of Spanish spp. with figs., male genitalia, pp. 215–217, pl. iii, ZARIQIEY Bol. Soc. ent. España **2.**

Limnius thermarius **sp. n.** E. Pyrenees p. 263, DEVILLE Bull. Soc. ent. France **1919.**

HETEROCERIDAE.

Heterocerus; habits, early stages, CLAYCOMB p. 25 pl. i Canad. Ent. **51.**— *H. peringueyi* p. 61, *rodieri* p. 62, *dilutipennis* p. 63, **spp. n.** Africa, GROUVELLE Mém. ent. **2.**

LUCANIDAE.

Variation of the males, GRIFFINI Rivist. Natura **9** 1918 p. ? and **10** pp. 13–46.

Cladognathini of Africa, KRIESCHE Mitt. zool. Mus. Berlin **9** p. 157–176.

Homoderus mellyi, forms figs., allies, GRIFFINI Atti Soc. ital. **58.**

Lissotes grammicus **sp. n.** N.S.W. p. 715, LEA P. Linn. Soc. N.S.W. **43.**

Prosopocoilus kuntzeni **sp. n.** Spanish Guinea p. 164, KRIESCHE Mitt. zool. Mus. Berlin **9.**

PASSALIDAE.

Episphenus, notes on oriental species, *annamensis* **n. sp.**, p. 297 fig., GRAVELY Rec. Ind. Mus **16.**

Ophrygonius cantori, larvae p. 264 figured, GRAVELY Rec. Ind. Mus. **16.**

Taeniocerus bicuspis, larvae p. 263 pl., GRAVELY Rec. Ind. Mus. **16.**

SCARABACIDAE.

Scarabaeidae found with remains of man in Florida (*Copris* and *Strategus*), WICKHAM Florida Geol. Surv. **12** p. 6 and 7.

Coprini.

Bolboceras quadrifoveatum Queensland p. 181 pl. xxv f. 17 and pl. xxvi f. 44, *bispinicolle* p. 182 pl. xxv ff. 18–19 and pl. xxvi ff. 45–46, *triunum* p. 183 pl. xxv f. 20 and pl. xxvi f. 47, Western Australia, **spp. n.**, LEA Trans. R. Soc. S. Aust. **43.**

Diastellopalpus, in Africa, distribution and origin, MARCUS pp. 382–394 SB. Ges. naturf. Fr. Berlin **1919.**

Gymnopleurus morosus F., valid, BOUCOMONT p. 604 Bull. Mus. Paris **25.**

Mnematium cancer **sp. n.** Africa p. 433 fig., ARROW Ann. nat. Hist. **3.**

Oniticellus davidi Moupin p. 601, *tridentatus* Tonkin p. 602, **spp. n.**, *bucerus* F. p. 603, BOUCOMONT Bull. Mus. Paris **25.**

Onthophagus alutaceus **sp. n.** Florida p. 31, BLATCHLEY Canad. Ent. **51.**—*O. laevis* = (*lampromelas* F.) var. n. *asiaticus, rugulosus* = (*expansicollis* F.), BOUCOMONT Bull. Mus. Paris **25** p. 604.

Trichiorhyssemus cariei **sp. n.** Mauritius p. 542 figs., BÉNARD Ann. Soc. ent. France **87.**

Euchirini.

Cheirotonus peracanus sp. n. Perak p. 77, KRIESCHE Ent. Mitt. **8.**

Melolonthini.

Anodontonyx insularis Queensland p. 217, *opalescens* N. S. Wales p. 218, *niger* Tasmania p. 219, **spp. n.**, LEA Trans. R. Soc. S. Aust. **43.**

Byrrhomorpha rudis Western Australia p. 223, *basicollis* South Australia p. 224, **spp. n.**, LEA T.c.

Cheiragra variabilis p. 210 pl. xxv ff. 24–25, *sericeipennis* p. 213 ff. 26–31, **spp. n.**, Queensland, *lurida* should be referred to *Phyllotocus* p. 196, *pygmaea* and *aphodides* synon. with *pusilla* p. 207, *pallida* synon. with *ruficollis* p. 208, LEA T.c.

Cheirrhamphica insularis p. 203, *coxalis* p. 204, *tuberculata* p. 205, **spp. n.** Queensland, LEA T.c.

Colymbomorpha splendida **sp. n.** N. S. Wales, LEA T.c.

Empecta disparilis **sp. n.** Madagascar p. 27 pl. i. f. 3, ARROW Ann. nat. Hist. **4.**

Engyops flavus **sp. n.** Queensland, LEA Trans. R. Soc. S. Aust. **43** p. 227.

Eucirrus mellyi ♂ = (*elegans* Br.), ARROW p. 28 Ann. nat. Hist. **4.**

Frenchella gagatina Western Australia p. 225 pl. xxvi f. 64, *fimbriata* Queensland p. 226 f. 65, *cribriceps* South Australia p. 226 f. 66, **spp. n.**, LEA Trans. R. Soc. S. Aust. **43.**

Glossocheilifer bidentatus **sp. n.** Western Australia, LEA p. 191 pl. xxvi ff. 55–58 T.c.

Haplonycha marginipennis p. 188 pl. xxvi f. 54, *suavis* p. 189 f. 56, *nigra* p. 190 f. 55, **spp. n.** Western Australia, LEA T.c.—*H. colossa* **sp. n.** W. Australia p. 721, LEA P. Linn. Soc. N.S.W. **43.**

Haplopsis serricollis **sp. n.** Western Australia, LEA Trans. R. Soc. S. Aust. **43** p. 228.

Hoplia aurata ♂ = (*thoracica* Mos.), ARROW p. 29 Ann. nat. Hist. **4.**

Hoplochelus; characters and composition, ARROW p. 26 T.c.

Lachnosterna cribrosa and *farcta*, VICKERY and WILSON p. 238 pls. xii and xiii J. econ. Ent. **12.**—*L. lanceolata*, natural history, genitalia, HAYES pp. 109–117 J. econ. ent. **12.**

Lepidiota flavimargo **sp. n.** Borneo p. 27, ARROW Ann. nat. Hist. **4.**—*L. froggatti* var. n. *stradbrokensis* Queensland, LEA Trans. R. Soc. S. Aust. **43** p. 187 pl. xxvi. f. 52.—*L. consobrina* **sp. n.** Queensland p. 187 GIRAULT Insec. inscit. **7.**

Leucopholis nummicudens = (*diffinis* Sh. = *lateralis* Br.), ARROW p. 28 Ann. nat. Hist. **4.**

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Maechidinus **gen. n.** near *Caulobius*, *latericollis* p. 231, *marginalis* p. 232, **spp. n.** Western Australia, LEA Trans. R. Soc. S. Aust. **43.**

Maechidius hackeri p. 229, *stradbrokensis* p. 230, **spp. n.** Queensland, *obscurus* synon. with *hopeanus* p. 230, LEA T.c.

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Platydesmus castaneus **sp. n.** N.S. Wales, LEA p. 16 T.c.

Pseudoheteronyx seticollis N.S. Wales p. 220 pl. xxvi f. 61, *basicollis* Australia p. 221, pl. xxv ff. 32–33 and pl. xxvi f. 62, *puncticollis* Queensland p. 222 f. 63, **spp. n.**, LEA T.c.

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Rutelini.

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Calloodes nitidissimus **sp. n.** Queensland, LEA p. 242 pl. xxvii ff. 71–72 T.c.

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Dynastini.

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Corynophyllus curvicornis **sp. n.** Queensland, LEA p. 238 pl. xxvii f. 81 T.c.—*C. interocularis* **sp. n.** N.S.W. p. 724, LEA P. Linn. Soc. N.S.W. **43.**

Cryptodus foveatus p. 234 pl. xxvii f. 85, *angustus* p. 235 f. 87, Northern Territory and Queensland, *antennalis* N.S. Wales and Queensland p. 234 pl. xxv ff. 34–35 and pl. xxvii f. 86, **spp. n.**, *creberrimus, obscurus, subcostatus*, synon. with *paradoxus* p. 233, LEA Trans. R. Soc. S. Aust. **43.**—*C. aberrans* **sp. n.** N. Australia p. 723, LEA R. Linn. Soc. N.S.W. **43.**

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Coptomiopsis gen. n. p. 116 for *Coptomia fimbriata* P., POUILLAUDE pl. x f. 6 and xii f. 5 T.c.

Cymophorus albosquamosus p. 182, *rugosus* p. 184, **spp. n.** E. Africa, BOURGOIN Voy. Alluaud Ins. Coléop. **14**.

Eccoptocnemis semiviridis **sp. n.** E. Africa p. 142 pl. vii fig. 4, BOURGOIN T.c.

Elaphinis xanthosternon **sp. n.** E. Africa p. 164, BOURGOIN Tc.

Eudicella cupresuturalis pl. vii fig. 3 p. 138, BOURGOIN T.c.

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Stenotarsia vittata **sp. n.** Madagascar p. 183 pl. xi f. 6 & pl. xii f. 11, POUILLAUDE T.c.

Trichiomorphus gen. n. *Trichiini* type *planatus* Waterh. p. 125, *gracilipes, rufus* **spp. n.** p. 126, E. Africa, BOURGOIN Voy. Alluaud Ins. Coléop. **14.**

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Nature of the metallic coloration, HASS S.B. Ges. naturf. Fr. Berlin **1916** p. 332–343 figs.

Acmaeodera graptelytra Algeria, *kabyliana* Tangier, p. 250, *abeillei* Algeria, *lusitanica* Portugal p. 251, *hellenica, leonhardi,* p. 252, *judaeorum* p. 253, **spp. n.**, *flavofasciata latisquammis* subsp. **n.** p. 254, OBENBERGER Ent. Bl. **10**, 1914.—*A. dsungarica* p. 19, *strandi* Transcaspian p. 20, **spp. n.**, OBENBERGER Ent. Bl. **14**, 1918.—*A. squamosa* **sp. n.** Cairo p. 233, THÉRY Bull. Soc. ent. France **1919.**—*A. sinuata* p. 152, *wenzeli* p. 154, *wheeleri* p. 155, *squamosa* p. 186, **spp. n.** U.S., *sinuata sexnotata* subsp. **n.** p. 153, VAN DYKE Ent. News **30** figs. pl. vii.

Agrilus graueri **sp. n.** C. Africa p. 114, KERREMANS Ann. Hofmus. Wien **28** 1914.—*A. biafranus* W. Africa p. 180, *canadensis* Canada p. 181, *surrubrensis, narcissus,* Costa Rica p. 182, **spp. n.**, OBENBERGER Ent. Bl. **13** 1917.—*A. perparvus* Caucasus p. 23, *aladaghensis* Persia, *strandi* Algeria, p. 24, **spp. n.**, *litura* ab. n. *zbraslavensis* p. 23, OBENBERGER Ent. Bl. **14** 1918.—*A. elongatus* var. n. *maksimirus,* STILLER p. 134 Ent. Bl. **14** 1918.—*A. willcocksi* **sp. n.** Cairo p. 234, THÉRY Bull. Soc. ent. France **1919.**

Anthaxia winkleri Aleppo p. 255, *exsul* China ? p. 256 with var. *satanella* p. 257, **spp. n.**, *millefolii* var. n. *protractipennis,* N. Africa p. 255, OBENBERGER Ent. Bl. **10** 1914.—*A. delagoana* p. 86, *colonialis* p. 87, **spp. n.** Africa, OBENBERGER Ent. Bl. **13** 1917.—*A. strandi* **sp. n.** Egypt p. 143, OBENBERGER Bull. Soc. ent. France **1919.**—*A. perrini* n. n. for *hirticollis* Ab. 1893, *salicis* ab. n. *longisquamis, fulgurans* var. n. *muliebris, corynthia* ab. n. *cyaneotincta, 4-punctata* var. n. *attavistica,* OBENBERGER p. 22 Ent. Bl. **14** 1918.—*A. parallela oreas* subsp. n. Algeria p. 195, PEYERIMHOFF Ann. Soc. ent. France **88.**

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Chrysobothris tranquebarica, SNYDER pp. 155–164 4 pls. J. agric. Res. **16.**—*C. impressa, tranquebarica, sexpunctata,* synonymy, FISHER pp. 173–177 P. ent. Soc. Washington **20.**—*C. graueri* **sp. n.** Africa p. 113, KERREMANS Ann. Hofmus. Wien **28** 1914.—*C. brahma* India p. 123, *coeruleoglabrata* Gaboon, *alecto* Brazil, p. 124, *costaricana* Centr. Am. p. 125, *paraguayensis* p. 126, **spp. n.**, OBENBERGER Ent. Bl. **13** 1917.—*C. femorata* and *mali, lineatipennis* distinct, BURKE pp. 326–330 J. econ. Ent. **12.**

Chrysochroa mikado **sp. n.** Japan p. 143, OBENBERGER Bull. Soc. ent. France 1919.

Chrysodema furcata Australia p. 44, *gloriosa* Celebes p. 45, *coriacea* Samar p. 46, *diversa* Amboina p. 47, *pallida* Brit. Columbia p. 48, **spp. n.** KERREMANS Ann. Soc. ent. Belgique **59.**

Cisseis fascigera New Guinea p. 20, *terrae-reginae* Queensland p. 21, **spp. n.**, OBENBERGER Ent. Mitt. **8.**

Cryptodactylus vavrai **sp. n.** India p. 88, OBENBERGER Ent. Bl. **13** 1917.

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C. taitina p. 52, *similis* p. 53, Tahiti, *emeraldina* Loyalty islds., *amatina* Tulagi, p. 54, *simplex* New Hanover p. 55, *punctulata* Trobriand isld., *atramentaria* New Guinea p. 56, **spp. n.**, KERREMANS Ann. Soc. ent. Belgique **59.**

Cyphosoma lausoniae var. n. *interruptum*, OBENBERGER p. 21 Ent. Bl. **14** 1918.—*C. gravidum* ab. n. *integrum*, THÉRY p. 234 Bull Soc. ent. France **1919.**

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Ectinogonia fasciata p. 58, *plagiata*, Peru, *pulverea* p. 59, *catenulata* p. 60, Chile, *cristula* p. 61, *argentinae* p. 62, Argentina, **spp. n.**, KERREMANS T.c.

Endelus calligraphus **sp. n.** Luzon p. 295 figs., *bakeri* figs., BANKS Philippine J. Sci. **15.**

Euchroma hunteri Sharp, BODKIN p. 218 Ent. Mo. Mag. **55.**

Gassneria **gen. n.** p. 17, *mirabilis* **sp. n.** Abyssinia p. 18, OBENBERGER Ent. Mitt. **8.**

Hippomelas aeneocuprea Mexico p. 41, *deliciosa* Peru p. 42, *perfecta* Colombia p. 43, **spp. n.** KERREMANS Ann. Soc. ent. Belgique **59.**

Iridotaenia laevis **sp. n.** Nias p. 43, KERREMANS T.c.

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Meliboeus stupidus p. 208, *siva* p. 209, *borneensis*, *adonis*, p. 210, *substituens* p. 211, East Indies, *abessenicus* p. 212, *fallator* p. 213, **spp. n.** figs., OBENBERGER Ent. Mitt. **8.**

Micrasta gyleki p. 90, *pygmaeola* p. 91, **spp. n.** Guadeloupe, OBENBERGER Ent. Bl. **13** 1917.

Paracupta glauca Solomon islds., *cupricostata* Tulagi p. 49, *duplicata* New Hebrides p. 50, *meecki* Australia p. 50, **spp. n.**, KERREMANS Ann. Soc. ent. Belgique **59.**

Paradoxa satanas **sp. n.** Congo p. 87, OBENBERGER Ent. Bl. **13** 1917.

Paragrilus costaricensis p. 21, *aureonitens* p. 22, **spp. n.** Costa Rica, OBENBERGER Ent. Mitt. **8.**

Paratyndaris **gen. n.** p. 92 for part of *Tyndaris*, *coursetiae* **sp. n.** Arizona p. 93, FISHER P. ent. Soc. Washington **21.**

Perotis lugubris prolongata subsp. n. Greece p. 21, OBENBERGER Ent. Bl. **14** 1918.

Poecilonota sp. Yukon Terr. p. 13E, SWAINE Rept. Canad. Arct. Exp. **3.**

Pseudagrilus fulminans **sp. n.** S. Africa p. 19, OBENBERGER Ent. Mitt. **8.**

Psiloptera (*Polybothrys*) *staudingerina* p. 278, *tacens* p. 279, *boreki*, *ridens*, p. 280, *cyanella* p. 281, *caudatula* p. 282, *aliena* p. 283, *platessa* p. 284, **spp. n.** Madagascar, OBENBERGER Ent. Bl. **13** 1917.—*P.* (*Damarsila*) *gibbosa* p. 30, *abdita* p. 31, *miranda* p. 32, *insolens* p. 34, *lemoulti* p. 35, *aemula* p. 36, *scapha* p. 37, *insidiosa* p. 38, *vicina* p. 40, *paradoxa* p. 41, **spp. n.** Africa, KERREMANS Rev. zool. afric. **7.**

Ptosima II. maculata varr., PIC Echange **35** pp. 7–9 hors texte; varr. n. *libanensis*, *mediojuncta* and *lateralis*, PIC p. 17 Echange **35.**

Rhaeboscelis tenuis, life history, WEISS & DICKERSON p. 41–44 J. New York ent. Soc. **27.**

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Sphenoptera banghaasi Amasia p. 51, *araxana* p. 52, *veselyi* p. 53, *S.* (*Chrysoblemma*) *angelica* p. 54, Araxes, *S.* (*Hoplistura*) *diabolica* Egypt ? p. 55, *S.* (C.) *ignita* ab n. *monochroa* Transcaspian p. 56, OBENBERGER Ent. Bl. **11** 1915.—*S. longicollis* p. 42, *amabilis* p. 43, *puncticollis* p. 44, **spp. n.** Africa, KERREMANS Rev. zool. afric. **7.**

Stigmodera list of Tasmanian p. 137, *octosignata* **sp. n.** Queensland p. 139 pl. iv f. 1, CARTER P. Linn. Soc. N.S.W. **44.**

Taphrocerus albonotatus **sp. n.** Florida p. 29, BLATCHLEY Canad. Ent. **51.**

Trachys horniana n.n. for *horni* Kerr. Formosa, OBENBERGER Ent. Bl. **14** 1918.—*T. clavicornis* **sp. n.** China p. 144, OBENBERGER Bull. Soc. ent. France **1919.**—*T. tricuspidata* **sp. n.** Algeria p. 235, THÉRY Bull. Soc. ent. France **1919.**

THROSCIDAE OR TRIXAGIDAE.

Aulonothroscus trixagoides p. 109, *levifrons* p. 110, *zanzibaricus* p. 111, **spp. n.** E. Africa, FLEUTIAUX Voy. Alluaud Ins. Coléop. **13.**

EUCNEMIDAE.

Arisocephalus **gen. n.** p. 732, *flavipes* p. 733, *rufipennis* p. 734, *basalis* p. 735, **spp. n.** Australia, LEA P. Linn. Soc. N.S.W. **43.**

Arrhipis africanus **sp. n.** E. Africa p. 114, FLEUTIAUX Voy. Alluaud Ins. Coléop. **13.**

Deltometopus rufipes larva with trophi, MOSHER p. 49–53 pl. iv Ann. ent. Soc. Amer. **12.**

Dictyeucnemis **gen. n.** p. 728, *mirus* **sp. n.** W. Australia p. 729, LEA P. Linn. Soc. N.S.W. **43.**

Dirhagus pygmaeus var. n. *nominandus*, ROUBAL p. 170 Ent. Bl. **11** 1915.

Dromaeolus depressus p. 447, *cylindricus*, Borneo, *bipartitus* Singapore, p. 446, **spp. n.**, FLEUTIAUX Philippine J. Sci. **15.**

Dyscolocerus bakeri **sp. n.** Borneo p. 450, FLEUTIAUX T.c.—*D. porosus* p. 727, *rubriventris* p. 728, **spp. n.** N.S.W., LEA P. Linn. Soc. N.S.W. **43.**

Dystrigonisthis laticollis Australia p. 737, *ferrugineus* Tasmania p. 739, **spp. n.**, LEA T.c.

Fornax tangensis sp. n. E. Africa p. 112, FLEUTIAUX Voy. Alluaud Ins. Coléop. **13.**—*F. dorsalis* p. 447, *umbilicatus* p. 448, *melanopterus*, *diapodioides* p. 449, **spp. n.** Borneo, FLEUTIAUX Philippine J. Sci. **15.**—*F. niger* p. 735, *castaneus* p. 736, *majorinus* p. 737, **spp. n.** Australia, LEA P. Linn. Soc. N.S.W. **43.**

Galba australis **sp. n.** Queensland, LEA p. 741 T.c.

Hemiopsida longicornis **sp. n.** Queensland p. 726, LEA T.c.

Languriosycython **gen. n.** p. 161 near *Scython*, *bakeri* **sp. n.** Mindanao p. 162, HELLER Ent. Bl. **13** 1917.

Macroscython similis **sp. n.** E. Africa p. 113, FLEUTIAUX Voy. Alluaud Ins. Coléop. **13.**

Microrhagus ruficollis **sp. n.** N.S.W. p. 725, LEA P. Linn. Soc. N.S.W. **43.**

Nematodinus **gen. n.** p. 750, *armipennis* **sp. n.** Queensland p. 751, LEA T.c.

Phaenocerus clavicornis **sp. n.** Tasmania p. 740, LEA T.c.

Subproletater guttatus **sp. n.** Singapore p. 455, FLEUTIAUX Philippine J. Sci. **15.**

ELATERIDAE.

The springing of Elateridae, VERHOEFF pp. 352–359 SB. Ges. naturf. Fr. Berlin **1918.**

Adelocera alluaudi p. 9, *jeanneli* p. 10 Kilimandjaro, *bulwensis* p. 11 Germ. E. Afr., **spp. n.**, FLEUTIAUX Voy. Alluaud Ins. Coleop. **13.**

Aeolus nanus p. 59, *jeanneli* p. 60, *africanus*, *candezei* p. 61, **spp. n.** E. Africa, FLEUTIAUX T.c.

Agriotes, larvae etc., ROBERTS Ann. Appl. Biol. **6** p. 116 pl. ix.

Agrypnus candezei **sp. n.** E. Africa p. 8, FLEUTIAUX Voy. Alluaud Ins. Coléop. **13.**

Alaus subrecticollis p. 26, *biocellatus* p. 28, *gerstaeckeri*, *albidus* p. 30, **spp. n.** E. Africa; *antinorii*, *revoili*, *tortix* figured pl. viii, FLEUTIAUX T.c.—*A. bituberosus* var. ? *lamassaensis* Neu-Mecklenburg p. 175, HEYDEN Abh. Senckenb. Ges. **36** 1915.

Anchastus parvicollis **sp. n.** E. Africa p. 73, FLEUTIAUX Voy. Alluaud Ins. Coléop **13.**

Athous haemorrhoidalis larva, ROBERTS Ann. Appl. Biol. **6** p. 116 fig.

Cardiophorus fulvus p. 77, *manderensis* p. 78, *samburensis* pl. viii fig. 7, *tavetensis* p. 79, *mombasensis* p. 80, *primus* p. 83, *secundus*, *tertius* p. 84, *fragilis* p. 85, *fulvopilosus*, *unicus* p. 86, *singularis* p. 87, *solus* p. 89, *kenyensis* p. 90, *magnicollis* p. 92, *fulvipennis* p. 93, *bimaculatus* p. 94, **spp. n.**, *submaculatus* var. n. *alluaudi*, *burensis* p. 95 E. Africa *octonotatus* pl. viii fig. 8, p. 89, FLEUTIAUX Voy. Alluaud Ins. Coléop **13.**

Chalcolepidius erythroloma food, SWEZEY p. 6 P. Hawai. ent. Soc. **4.**

Denticollis linearis varr., PIC Echange **35** pp. 15, 16 hors texte.

Dicronychus uniformis p. 103, *tangensis* p. 104, *rufus* pl. viii fig. 10, p. 105, **spp. n.** E. Africa, FLEUTIAUX Voy. Alluaud Ins. Coléop. **13.**

Drasterius thoracicus sp. n. E. Africa p. 66, FLEUTIAUX T.c.

Elater titanus **sp. n.** Albania p. 43, REITTER Ent. Bl. **14** 1918.

Glyphonyx aberdarensis **sp. n.** E. Africa p. 101, FLEUTIAUX Voy. Alluaud Ins. Coléop. **13.**

Heteroderes motschulskyi nom. n. for *nigrofasciata* p. 63, *H.* (*Aeoloides*) *alluaudi* **sp. n.** p. 65, E. Africa, FLEUTIAUX T.c.

Lacon kilimandjarensis p. 17, *kenyensis* p. 18, *vicinus* p. 19, *unicus*, *singularis* p. 21, *samburensis* p. 22, *tigrinus* p. 23, **spp. n.** E. Africa, FLEUTIAUX T.c.

Ludius bennigseni pl. viii fig. 9, p. 99, FLEUTIAUX T.c.

Melanoxanthus brevicornis, *fusiformis* **spp. n.** E. Africa p. 70, FLEUTIAUX T.c.

Monadicus gagates E. Africa p. 75, FLEUTIAUX T.c.

Nomopleus alluaudi p. 107, *candezei* p. 108, **spp. n.** E. Africa, FLEUTIAUX T.c.

Olophoeus rugosus, pl. viii fig. 6, p. 41, FLEUTIAUX T.c.

Pantolamprus cyanipennis **sp. n.** E. Africa p. 39, FLEUTIAUX T.c.

Perinellus sinaitus **sp. n.** Sinai p. 14, PIC Echange **35.**

Psephus depressus p. 43, *propensus* p. 44, *alluaudi*, *rufus*, p. 45, *agomschioides* p. 47, *pomachilioides* p. 48, *linearis* p. 49, *rubidus* p. 50, *opacus* p. 52, *ischiodontoides* p. 56, **spp. n.**, *discolor* var. n *thoracicus* p. 52, *mutatus* nom. n. for *rubripennis* p. 47, E. Africa, FLEUTIAUX Voy. Alluaud Ins. Coléop **13.**

Selatosomus guttatus var. n. *seminotatus* p. 13, PIC Echange **35.**

Tarsalgus zanzibaricus **sp. n.** Zanzibar p. 102, FLEUTIAUX Voy. Alluaud Ins. Coléop. **13.**

Tetralobus candezei p. 35, *hemirhipoides* p. 36, pl. viii fig. 5, **spp. n.** E. Africa; *scutellaris* fig. 4, FLEUTIAUX T.c.

CEBRIONIDAE.

Cebrio carbonarius, female, CLERMONT p. 210 Bull. Soc. ent. France **1919.**

DASCILLIDAE.

Macrohelodes montanus **sp. n.** Tasmania p. 250, *intricatus*, *gravis*, *tasmanicus* and *niger* are varieties of *crassus*, p. 249, LEA Trans. R. Soc. S. Aust. **43.**

Scirtes natovensis, *veitchi*, **spp. n.** Fiji p. 27, CHAMPION Ent. mo. Mag. **55.** 1—*S. quadripustulatus*, *bifidus*, p. 130, *dollmani*, *microcaroides*, p. 131, *rhodesiae*, *neavei*, p. 132, **spp. n.** Africa, CHAMPION T.c.

Sclerocyphon aquaticus **sp. n.** Tasmania, LEA Trans. R. Soc. S. Aust. **43** p. 252.

MALACODERMIDAE.

Apalochrus tonkineus, *depressicornis* India, *A.* (*Spinapalochrus* subg. n.) *rufofasciatus* Tonkin, **spp. n.**, PIC Mélanges **30.**—*A. lusanganus*, *semicupreus*, p. 10, *jeanneli*, *alluaudi*, *nairobianus*, p. 11, **spp. n.** E. Africa, also 6 varr. n., PIC Mélanges **31.**

Apterostylus **subg. n.** of *Astylus* for *convexus* Ch., PIC p. 3 hors texte Echange **35.**

Arthrobrachus boucardi, *longipilis*, p. 9, *germaini*, *minutus*, *vicinus*, *impressithorax*, p. 10, 4-*guttatus*, *lajoyei*, *dubius*, p. 11, **spp. n.** Am. mer., also 4 varr. n., PIC Mélanges **30.**

Astyloglossa **gen. n.** p. 6 near *Octoglossa*, *coeruleipennis* **sp. n.** Bogota p. 7, PIC T.c.

Astylomorphus **gen. n.** near *Chalcas*, type *A. viridimicans* P., PIC p. 7 T.c.

Astylus anticejunctus, *notaticollis*, *atripes*, p. 8, *unicolor*, *testaceicornis*, *scalaris*, p. 9, **spp. n.** Am. mer., PIC T.c.—*A. peruvianus*, *cribrosus*, *mutatus*, *inseparatus*, *grisescens*, p. 20, *acutipennis* p. 21, 4-*spinosus*, *confusus*, *nigrolineatus*, p. 22, **spp. n.** Amer. mer., also 16 varr. n., PIC Mélanges **31.** —*A. octonotatus*, *punctatus*, *curtus*, *alboscutellatus*, *lineolatus*, *bipunctatus*, **spp. n.** Am. mer., also 6 varr. n., PIC

p. 4 hors texte Echange **35**.—*A. luteocinctus* Brazil, *viridimetalicus* Argentina, **spp. n.** p. 188, *nigronotatus* P. = (*curvidens* Ch.) p. 189, Pic Bull. Soc. ent. France **1919**.

Attalus meridanus, germaini, p. 13, *atrocinctus, diversicornis,* Amer. mer., *subimplicatus* Guatemala, *jalapanus* Mexico, p. 14, *bahianus, teapasensis, schneideri,* p. 15, *nicaraguensis, spinipes, bogotanus,* Am. mer., *impressifrons, carinatifer,* India, p. 16, **spp. n.**, also various varr. n., Pic Mélanges **30**.—*A. buranus, kenyensis,* p. 8, *podocarpini, A. ? viridimetallicus,* p. 9, **spp. n.** E. Africa, Pic Mélanges **31**.

Belotus subelongatus, bipunctatus, Honduras, *bakeri* Nicaragua, *bogotanus,* p. 15, *mexicanus, biimpressus* Guatemala, *saturalis* Bogota, p. 16, **spp. n.**, Pic T.c.

Carphurus myrmecophilus **sp. n.** South Australia, Lea Trans. R. Soc. S. Aust. **43** p. 253.

Chalchas ; annotated list pp. 1–3, *abnormis* = (*Astylus correptus* Ch.), Champion Ent. Mo. Mag. **55**.—*Chalcas ;* Pic defines the subgenera p. 23, three of them new, and names 12 varr. p. 24, Echange **30**.—*C.* (*Pseudoastylus* subg. n.) *plicatus, C. fasciculatus,* p. 7, *lajoyei* p. 8, **spp. n.** Am. mer., *bremei* var. n. *quinquenotatus,* Pic Mélanges **30**.—*Chalcas sallei* and *lineatocollis,* 6 varr. n., Pic pp. 22 & 23 Mélanges **31**.

Chalcomorphus **subg. n.** of *Chalcas* for *obesus* F., Pic p. 23 Mélanges **30**.

Chauliognathus brunneomaculatus, bertheloti, **spp. n.** Amer. mer. p. 19, Pic Mélanges **31**.

Cladapalochrus **subg. n.** p. 11 for *A. festivus* Er., Pic p. 11 Mélanges **30**.

Colotes cinctipennis, longonotensis, minutissimus, **spp. n.** E. Africa, Pic p. 7 Mélanges **31**.

Daiphron longulum, subdepressum, infasciatum, angustatiforme, laticolle, scutellare, p. 17, *inscutellare, excavatum, incostatum, costatum,* **spp. n.** Am. mer., *lyciforme* var. n. *undulatum,* p. 18, Pic T.c.

Danacaeina obenbergeri **sp. n.** E. Buchara p. 43, Reitter Ent. Bl. **11** 1915.

Dasytes nigrovittatus, nairobanus, **spp. n.** E. Africa, Pic p. 3 Mélanges **31**.

Dimorphochalcas **subg. n.** of *Chalcas* for *C. strabeatus* etc., Pic p. 23 Mélanges **30**.

Discodon martapuranum, tolinum, opacum, Celebes, *roonense, atricolor* Banquey, p. 17, *curticolle* New Guinea, *curvatipes* Borneo, p. 18, **spp. n.**, Pic T.c.—*D. elongatipenne* New Guinea, *pomeranum,* **spp. n.** p. 19, Pic Mélanges **31**.

Ebaeus madrasensis **sp. n.** p. 13, Pic Mélanges **30**.—*E. ? tavetanus* **sp. n.** E. Africa p. 8, Pic Mélanges **31**.

Heteracrius Kirsch, Champion p. 279 Ent. Mo. Mag. 55.

Ichthyurus favareli Gaboon, *carinatopygus* Sumatra with var. *vicinus* Java, *fuscatus, elongatus,* Borneo, *immaculatus* India, **spp. n.** p. 15, Pic Echange **35**.—*I. geniculatus* **sp. n.** E. Africa, *forcipiger* varr. n. *alluaudi* and *jeanneli,* Pic p. 1 Mélanges **31**.

Idgia plectrophora p. 330, *abyssinica, longipalpis* p. 334, Africa, *arabica* p. 336, *laticornis* p. 337, Yemen, *ungulata* p. 339, *virescens* China p. 340, *triserrata* India p. 341, *cyanocephala* Perak p. 345, *femorata* p. 346, *nilgirica* p. 347, India, *caeruleiventris* Penang p. 348, *cavilabris, uncigera,* India p. 349, *javana* p. 350, *marginata* p. 350, *flavolimbata* p. 351, India, *viridivitta* Assam p. 352, *maculiventris* India p. 353, *flavilabris* Perak, *geniculata* Ceylon, p. 354, *dichroa* Borneo, *semitecta* Ceylon, p. 355, *cyanura* Ceylon p. 359, *luteipes* p. 361, *indicola* p. 362, *rostrifera* p. 363, *nitida* p. 364, India, *varicornis* Tenasserim p. 366, *varipes* Penang, *atriceps* p. 367, *decolor* p. 368, Burma, *angustata* Borneo p. 369, *dasytoides* Burma p. 370, **spp. n.**, male genitalia figured pls. xi & xii, Champion Ann. nat. Hist. **3**.—*I. maculatithorax* **sp. n.** Tonkin p. 7, Pic Mélanges **30**.—*I. alluaudi* **sp. n.** E. Africa, *tripartita* var. n. *diversicollis,* Pic p. 3 Mélanges **31**.

Laius latefasciatus, 6-maculatus, **spp. n.** Formosa p. 12, Pic Mélanges **30**.

Lamprophorus tenebrosus, larva, habits, Paiva Rec. Ind. Mus. **16** p. 19–28 pl. viii.

Lusingattalus **gen. n.**, *robusticornis* **sp. n.** E. Africa, PIC p. 9 Mélanges **31.**

Macroastylus **subg. n.** for *antis* etc., PIC p. 3 hors texte Echange **35.**

Malachiolomphus ruficeps var. n. *obscuripes* p. 9, PIC Mélanges **31.**

Malachius alfierii **sp. n.** Egypt p. 14, PIC Echange **35.**

Malthodes jeanneli, ugendensis, p. 1, *monstrosicornis* p. 2, **spp. n.** E. Africa, PIC Mélanges **31.**

M. pilosus Trinidad, *driliformis* Gaboon, *M. ? staphylinoides* Sumatra, **spp. n.** p. 16, PIC T.c.—*M. luteostylus, furcatistylus*, Tunis, *gracilipygus* Algeria, **spp. n.** p. 9, PIC Echange **35.**—*M. robustithorax* **sp. n.** Algeria p. 13, PIC T.c.—*M. reflexus* p. 34, *magister* p. 35, *vigilans, basalis*, p. 36, *mitificus, piceolus, mollis*, p. 37, with var. *longipennis, appendiculatus*, p. 38, *obductus, bicurvatus*, p. 39, *complicatus, sericeiventris*, p. 40, *vapidus, tularensis*, p. 41, *visceratus* p. 42 **spp. n.** California, FALL Ann. ent. Soc. Amer. **12** figs.

Malthoichthyurus **gen. n.** type *T. dichelifer* Chp. p. 12, *biolleyi* Costarica, *luteiceps, longissimus*, p. 13 Am. mer., **spp. n.**, PIC Mélanges **31.**

Maronius inapicalis mendesensis, **spp. n.** Brazil p. 14, PIC T.c.

Melyrastylus **subg. n.** for *wagneri* P. etc., PIC p. 3 hors texte Echange **35.**

Melyris, revision african and asiatic species, pp. 157–219 and suppl. p. 360, with the following new; *laxicornis* p. 161, *rufomarginata* p. 164, *aurescens, ciliativentris*, p. 166, *capensis* p. 167, *violacea* p. 168, *laetula* p. 169, *quinqueseriata* p. 171, S. Africa; *congoensis* p. 172, *denticulata* p. 174, *umbilicata* p. 175, W. and C. Africa; *flavopectus* p. 181, *foveolata* p. 182, *masaiensis, luckmani*, p. 185, *flavofemorata* p. 186, *itigiensis* p. 190, *hacquardi* p. 191, *brevicollis* p. 192, *piligera, serrata*, p. 193, *atricornis* p. 194, *virens, uniformis*, p. 145, E. Africa; *anceyi* n. n. for *versicolor* Ancey p. 198, *circumsepta* Eritraea p. 200, *pilicollis* p. 202, *parallela* p. 204, *quadricollis* p. 205, Abyssinia; *bicalcarata* p. 209, *cucullata* p. 210, *cyanopectus* p. 211, Arabia; *erythrodera* India p. 213; *cyanipennis* p. 215, *excisa* p. 216, *longipennis* p. 217, E. Africa, *fulvipennis* Damaraland p. 218; **spp. n.**, CHAMPION Ann, nat. Hist. **4.**

Microastylus **subg. n.** for *tucumanensis* P., PIC p. 3 hors texte Echange **35.**

Microichthyurus **subg. n.**, *impressicollis* Lombock, *robustus* Palawan, **spp. n.**, PIC Mélanges **31** p. 14.

Micromalthinus **gen. n.** near *Maronius* p. 14, *maximiceps* **sp. n.** Guiana p. 15, PIC T.c.

Mimochalcas **subg. n.** of *Astylus* for *laetus* Er., PIC p. 2 hors texte Echange **35.**

Mixis subinterrogationis, jeanneli with var. *kijubeensis*, **spp. n.** E. Africa, PIC p. 9 Mélanges **31.**

Morphochalcas **subg. n.** of *Chalcas* for *C. lineatocollis* etc., PIC p. 23 Mélanges **30.**

Paratenus germaini **sp. n.** Bolivia p. 24, PIC Echange **35.**—*Paratinus minor* **sp. n.** E. Africa p. 11, PIC Mélanges **31.**

Pelecophora ? jeanneli p. 3, *P. atricolor* p. 4, **spp. n.** E. Africa, PIC T.c.

Phausis delarouzeei and *L. noctiluca*, luminous organs, BUGNION C.R. Soc. Biol. **82** pp. 994—999 figs.

Phengodes floridensis **sp. n.** p. 30, BLATCHLEY Canad. Ent. **51.**

Plateros suturalis, rubripennis, **spp. n.** India p. 21, PIC Mélanges **30.**

Prionocerus and *Idgia* revised, and the male characters figured, CHAMPION pp. 325–372 pls. xi & xii Ann. nat. Hist. **3.**—*P. thibetanus* **sp. n.** W. Himalaya, OBENBERGER Ent. Bl. **14** 1918.

Pseudoastylus **subg. n.** vide *Chalcas.* Pic

Pseudocerocoma **gen. n.** for *Lobetus mirabilis* Gorh., PIC p. 12 Mélanges **31.**

Pseudocolotes ? atriceps, P. nairobianus, trinotatus, atricolor, kenyensis, p. 7. *kijubeensis* with var. *lateralis, albonotatus, alluaudi*, p. 8, **spp. n.** E. Africa, PIC T.c.

Pseudodasytes **subg. n.** of *Astylus* for *nigrofemoralis* P., PIC p. 3 hors texte Echange **35.**

Silidius ruwenzorensis, kenyensis, subopaciceps with var. *limbatithorax, longipennis, alluaudi, naivaschanus,* p. 2, *jeanneli* with var. *nigrosuturalis, testaceocinctus, longedentatus* p. 3, **spp. n.** E. Africa, Pic Mélanges **31**.

Silis semitestaceicornis, fochi, New Guinea, *clemenceaui* Timor, *petaini* Borneo, **spp. n.** p. 18, Pic Mélanges **30**.

Sphinginopalpus dentaticornis, kijabensis jeanneli, nairobanus p. 5, *nakunosus, suturalis, gibbosus, lateralis, nitidiceps,* p. 6, **spp. n.** E. Africa, also 6 varr. n., Pic Mélanges **31**.

Spinapalochrus **subg. n.** vide *Apalochrus.* Pic

Spinastylus **subg. n.** for *gorhami* P., etc., Pic p. 3 hors texte Echange **35**.

Telephorus neglectus **sp. n.** U.S. p. 215, Fall Canad. Ent. **51**.

Trogloapalochrus **subg. n.** for *A. bicornutus* P., Pic p. 12 Mélanges **30**.

Troglops distincticeps, naivashanus, **spp. n.** E. Africa, Pic p. 4 Mélanges **31**.—*T. angustatus* var. n. *normandi,* Pic p. 9 Echange **35**.

Trypheromimus **subg. n.** of *Trypherus* for *T. nankineus* Pic, Pic p. 12 Mélanges **31**.

Tripherus m-signatus with var. *bimaculatus* **sp. n.** Formosa p. 24, Pic Echange **35**.—*F. limbatus* **sp. n.** Japan p. 12, Pic Mélanges **31**.

Tucumanius pygidialis p. 16, *arcuatipes* p. 17, **spp. n.** Brazil, Pic Mélanges **30**.

Tylocerus discoviridis Haiti, *amboinensis, ribbei* Nioko, *dohertyi* Batchian, *semirugulosus* Menado p. 19, *gracilicornis, longesuturalis, humboldti, subopacus, breveapicalis, subcrassicornis,* p. 20, *inapicalis,* New Guinea, *keiensis, lateralis* Kei isld., *costulatus* Tenimber, *timorensis* p. 21, **spp. n.**, Pic T.c.

Xamerpus nigromaculatus **sp. n.** E. Africa p. 4, Pic Mélanges **31**.

Zygia aureotincta, atrociliata, with var. n. *obscuripes,* **spp. n.** E. Africa, *incompleta* var. n. *jeanneli,* Pic p. 4 T.c.—*Z. cyanea, cherenensis, longipennis, rhodesiana* p. 23, *rubrofemoralis, mauritanica, atritarsis, obscuripes,* **spp. n.** Africa, *viridis* var. n. *curtipennis* p. 24, Pic T.c. — *Z. coerulescens, costata, humilis,* **spp. n.** Africa, *nigripes* var. n. *viridescens,* p. 24, Pic Echange **35**.

Cleridae.

Callimerus princeps Philippines p. 227, *bornensis* p. 228, *oculatus,* Borneo, *hexagonus* Penang p. 229, *luzonicus, fuscitarsus* Singapore, *lateralis* p. 230, *basilanicus* p. 231, *albescens, fenestratus,* p. 232, *albus, flavus,* Philippines, *arcufer* Penang, p. 233, *terminalis* Borneo p. 234, **spp. n.**, Chapin P. biol. Soc. Washington **32**.

Lemidia basiflava p. 343, with var. *fasciata* p. 344, South Australia, *auricoma* p. 344, with var. *flaviventris* p. 345, *variabilis* p. 345 f. 2, *flavicollis* p. 346, Queensland, **spp. n.**, Elston Trans. R. Soc. S. Aust. **43**.

Melanoclerus **gen. n.** p. 226 near *Gastrocentrum, parvus* **sp. n.** Borneo p. 227, Chapin P. biol. Soc. Washington **32**.

Necrobia ruficollis, habits, life-history, Scott Ann. appl. Biol. **6** pp. 101–115, figs.

Tillus mindanensis p. 225, *nitidicollis* Borneo p. 226 **spp. n.**, Chapin P. biol. Soc. Washington **32**.

Trichodes apiarius varr. p. 5, *alvearius* p. 6, Pic hors texte Echange **35**.

Ptinidae.

Catorama nigritulum, Weiss p. 255 Canad. Ent. **51**.

Diphobia longicornis **sp. n.** Western Australia, Lea Trans. R. Soc. S. Aust. **43** p. 256 pl. xxv f. 40.

Enasiba tristis Oll. p. 254 figs., Lea T.c.

Ernobius conicola p. 296, *californicus* p. 297, *champlaini* p. 298, **spp. n.** U.S., Fisher P.U.S. nat. Mus. **55**.

Gibbium scotias, sexes, Britten p. 88 Ent. mo. Mag. **55**.

Myrmecoptinus **gen. n.** p. 206, *butteli* **sp. n.** Sumatra p. 207 pl. iv f. 20, Wasmann Zool. Jahrb. Syst. **39**, 1916.

Neohedobia **gen. n.** near *Hedobia, texana* **sp. n.**, Fisher p. 184 Pr. ent Soc. Washington **21**.

Oligomerus arbuti **sp. n.** California p. 296, Fisher P.U.S. nat. Mus. **55**.

Polyplocotes carinaticeps **sp. n.** Western Australia, Lea Trans. R. Soc. S. Aust. **43** p. 254 pl. xxv f. 39.

Ptilineurus marmoratus, FISHER Pr. ent. Soc. Washington **21** pp. 185 and 186.

Ptilinus bernhaueri **sp. n.** Ural p. 87, REITTER Col. Rundschau **1916.**

Ptinus (*Eutaphrus*) *elongatior* **sp. n.** Egypt p. 14, PIC Echange **35.**—*P. huesanus* **sp. n.** Florida p. 295, FISHER P.U.S. nat. Mus. **55.**—*P. mitchelli* p. 181, *barberi* p. 182, **spp. n.** Texas, FISHER Pr. ent. Soc. Washington **21.**

Stagetus denticornis **sp. n.** India p. 242, CHAMPION Ent. Mo. Mag. **55.**

Trichodesma pratti **sp. n.** Texas p. 184, FISHER Pr. ent. Soc. Washington **21.**

BOSTRICHIDAE, LYCTIDAE.

Eicolyctus **gen. n.** for *Cryptophagus brunneus* Gyll., SAHLBERG p. 4 Ent. Tidskr. **40.**

Sinoxylon fuscovestitum **sp. n.** Laos p. 465, LESNE Bull. Mus. Paris **1919.**

CIOIDAE.

Cis oblongus glutinosus subsp. n. p. 186 Algeria, PEYERIMHOFF Ann. Soc. ent. France **88.**—*C. criddlei* **sp. n.** Manitoba p. 158, DURY Canad. Ent. **51.**

Dolichocis **gen. n.**, *manitoba* **sp. n.**, DURY p. 158 T.c.

Sulcacis lengi, WEISS p. 203 Canad. Ent. **51.**

TENEBRIONIDAE.

Notes on Tenebrionidae from Crete, SCHUSTER pp. 1–5 Ent. Bl. **11** 1915.

Achora = (*Priothorax* Geb.), BLAIR p. 529 P. Linn. Soc. N.S.W. **44.**

Adelium delicatulum p. 165, *maccullochi* p. 166, **spp. n.**, Australia, *abbreviatum* varr. n. *dentatum lomondense* p. 167, CARTER P. Linn. Soc. N.S.W. **44.**

Akis bernhaueri **sp. n.** Cyrenaica p. 29, SCHUSTER Ent. Bl. **15.**

Alaudes squamosa p. 309, *setigera* p. 310, *testacea* p. 311, **spp. n.**, U.S., BLAISDELL Tr. amer. ent. Soc. **45.**

Amarygmus incultus **sp. n.** Australia p. 172, CARTER P. Linn. Soc. N.S.W. **44.**

Ammogiton **gen. n.** *Tentyriini* near *Hyperops*, *viberti* **sp. n.** Tunis figs., PEYERIMHOFF p. 327 Bull. Soc. ent. France **1919,** 1920.

Blapidocamaria **subg. n.** vide *Pseudoblapida.*

Blapidocamaria angustior **sp. n.** Brazil p. 3, PIC Mélanges **30.**

Blapidocampsia **subg. n.** of *Campsia* p. 3, for *C. pallidipes* Pic etc., PIC T.c.

Blaps violattei **sp. n.** Algeria p. 328, PEYERIMHOFF Bull. Soc. ent. France **1919,** 1920.

Bolbophanes sericatus **sp. n.** Australia p. 159, CARTER P. Linn. Soc. N.S.W. **44.**

Brachycilibe tasmanicum **sp. n.** Tasmania p. 148, CARTER T.c.

Brycopia diemenense Tasmania p. 170, *punctatissima* Australia p. 171, figs. CARTER T.c.

Byallius punctatus **sp. n.** Australia p. 158, CARTER T.c.

Camaria longipennis p. 117, *punctulata* p. 118, **spp. n.** Brazil, PIC Bull. Soc. ent. France **1919.**—*C. vicina fortipes* Borneo p. 7, *singularis* Peru, *viridescens* Amazon p. 8, **spp. n.**, PIC Echange **35.**

Cardiothorax constrictus p. 160, *kershawi* p. 161, *macleayensis* p. 162, *alternatus* p. 163, **spp. n.** Australia, figs., CARTER P. Linn. Soc. N.S.W. **44.**

Catobleps and *Blatticephalus* are identical, *Falsocossyphus chatanayi* Bl. may be *pilosus* Pic, BLAIR pp. 101–103 Ent. mo. Mag. **55.**

Cestrinus and allies, synonymy, BLAIR pp. 529–532, P. Linn. Soc. N.S.W. **44.**

Coelus; revised, *ciliatus* varr. n. *sparsus* p. 325, BLAISDELL Tr. amer. ent. Soc. **45** pp. 315–334 pl. xxxii.

Dorosphaerus granulipennis **sp. n.** Sumatra p. 74, BLAIR J. Fed. Malay St. Mus. **8** pt. 3.

Eleodes opaca, metamorphosis, MCCOLLOCH pp. 183–194 pl. v J. econ. Ent. **12.**—*E. tricostata*, larval habits CRIDDLE p. 101 Canad. Ent. **51.**

Enhypnon **gen. n.** p. 143, *Bolitophaginae*, *laticeps* **sp. n.** Tasmania p. 144, CARTER P. Linn. Soc. N.S.W. **44.**

Enoplopus dentipes var. n. *rufescens*, PIC p. 5 Echange **35.**

Exangeltus rufipennis **sp. n.** Queensland p. 140 pl. iv f. 2, CARTER P. Linn. Soc. N.S.W. **44.**

Gnathosia proxima Persia p. 61, *punctatissima* Kashmir, *pseudonemia* Buchara p. 62, **spp. n.**, Reitter Col. Rundschau **1915.**

Gonocnemis rufitarsis, aeneipennis, p. 1, *opacus* p. 2, **spp. n.**, Africa, Pic Mélanges **30.**

Helops ecoffeti var. n. *rufocastaneus, piceus subaeneipennis*, Pic p. 5 Echange **35.**

Heterophylus rosae **sp. n.** Turkestan p. 89, Schuster Ent. Bl. **11**, 1915.

Homoeocamaria **nom. n.** for *Homoeogenus* Wat., Blair p. 75 J. Fed. Malay St. Mus. **8** pt. 3.

Laena atripennis **sp. n.** Greece p. 6, Pic Echange **35.**

Licinoma punctalatera **sp. n.** Australia p. 169, Carter P. Linn. Soc. N.S.W. **44.**

Litoborus parallelus **sp. n.** Tripoli p. 30, Schuster Ent. Bl. **15.**

Lobothorax winkleri **sp. n.** Turkestan p. 91, Schuster Ent. Bl. **11**, 1915.

Lobothorax (*Stenavus*) *persicus* p. 31, *L.* (*Myladion*) *ferganensis* Turkestan p. 32, **spp. n.**, Schuster Ent. Bl. **15.**

Micipsa ; table of egyptian, Schuster p. 65 Ent. Bl. **11** 1915.

Microcilibe **gen. n.** near *Uloma, castaneum* **sp. n.** Australia, Carter p. 147 P. Linn. Soc. N.S.W. **44.**

Microdera scythiformis Mongolia, *macrops* Russia (?) p. 93, *fortepunctata* Saissan p. 94, *ocularis* Transcaucasus, *laevigatula* Transcaspian, p. 95, **spp. n.**, Reitter Ent. Bl. **11**, 1915.—*M turkestanica* **sp. n.** p. 87, Schuster Ent. Bl. **11** 1915.

Micruloma **gen. n.** *Uloma minuta* C., Carter p. 146 P. Linn. Soc. N.S.W. **44.**

Mitua Hope = (*Pseudopatrum* Sh.), Blair p. 531 P. Linn. Soc. N.S.W **44.**

Mnionophilus **gen. n.** p. 141 *Bolitophaginae, horridus* p. 142, *costatus* p. 143, **spp. n.** Tasmania, Carter P. Linn. Soc. N S.W. **44.**

Opatrum reitteri **sp. n.** Caucasus p. 90, Schuster Ent. Bl. **11** 1915.

Ospidus vestitus **sp. n.** Australia p. 155, Carter P. Linn Soc. N.S.W. **44.**

Platydema ellipticum, Weiss p. 276 Canad. Ent. **51.**

Platyscelis gebieni **sp. n.** Mongolia p. 88, Schuster Ent. Bl. **11** 1915.

Pseudoblapida (*Blapidocamaria* subg. n.) *incostata* **sp. n.** Brazil, Pic p. 7 Echange **35.**

Pterohelaeus darlingensis p. 149, *gilesi* p. 150, **spp. n.**, Australia, Carter P. Linn. Soc. N.S.W. **44.**

Saragus convexus **sp. n.** Australia p. 153, Carter T.c.

Scythis laticeps Altai p. 67, *rotundicollis* Alai-Tau, *prosternalis, edda*, p. 69, *suturalis, thetis*, Turkestan, *dominula* Semiretschie, p. 70, *aglaja* Alai-Tau p. 71, *athelea* with var. *gorgone, substriatula* Issy-kul p. 72, **spp. n.**, Reitter Ent. Bl. **11** 1915.

Seidlitzellus **n.n.** for *Anisocerus*, Reitter p. 221 Ent. Bl. **15.**

Seirotrana simsoni **sp. n.** Tasmania, p. 168 fig., Carter P. Linn. Soc. N.S.W. **44.**

Setenis subfoveata New Guinea etc. p. 1 fig. 4, *mandibularis* India and Ceylon p. 2 fig., *producta* New Guinea p. 4 fig. 6, *amplipennis* New Guinea p. 5 fig. 5, *barbata* New Guinea p. 6, *paupercula* S. China and Tonkin p. 7 fig, *tonkinensis* Tonkin p. 8 fig. 7, *evanescens* S. China and Tonkin p. 9 fig., *opaca* India p. 10 fig 8, *furva* S. India and Ceylon p. 11 fig. 9, *polita* New Guinea p. 13 fig 10., pl. ii, **spp. n.**, Gebien Ent. Mitt. **8** (pl. in **7**).—*S. pubiventris* **sp. n.** Sumatra p. 74, Blair J. Fed. Malay St. Mus. **8** pt. 3.

Stenogena rufonotata, annulipes p. 4, *robusta* p. 5, **spp. n.**, Madagascar, Pic Mélanges **30.**

Stenogenomorpha **gen. n.**, *impressa* **sp. n.** Madagascar, Pic p. 5 T.c.

Styrus puncticollis **sp. n.** Australia p. 156, Carter P. Linn. Soc. N.S.W. **44.**

Sympetes browni p. 152, *depressus* p. 153, **spp. n.**, Australia, Carter T.c.

Tenebriocamaria **gen. n.** p. 3, *atra* **sp. n.** Peru p. 4, Pic Mélanges **30.**

Tentyria paganettii **sp. n.** Crete p. 6, Schuster Ent. Bl. **11** 1915.—*T. cyrenaica* p. 27, *elegans* p. 28, **spp. n.**, Cyreniaca, Schuster Ent. Bl. **15.**—*T. mairei* **sp. n.** Marocco p. 327, Peyerimhoff Bull. Soc. ent. France **1919**, 1920.

Thoriotosoma **gen. n.** near *Typhluloma, ectatommae* p. 258, *tibiale* p. 259 pl. xxv f. 43, **spp. n.**, Western Australia, LEA Trans. R. Soc. S. Aust. **43.**

Thraucostolus montandoni **sp. n.** Egypt p. 87, SCHUSTER Ent. Bl. **11** 1915.

Uloma pygmaea to *Palorus*, CARTER p. 147 P. Linn. Soc. N.S.W. **44.**

Ulominae, table of Australian genera p. 145, synonymy pp. 145 and 146, CARTER T.c.

Zophosis ; descriptions of spp. diagnosed in 1914, CHATANAY pp. 589–595 Bull: Mus. Paris **25.**—*Zophosis*, spp., notes pp. 581–588, *abyssinica* var. n. *corrugata* p. 583, *sphaerura* **sp. n.** Khartoum p. 585, LESNE Bull. Mus. Paris **25.**—*Z. approximata beraudi*, subsp. n. Sahara, PEYERIMHOFF p. 325 Bull. Soc. ent. France **1919,** 1920.

CISTELIDAE OR ALLECULIDAE.

Allecula chatanayi, minutissima, viridipennis, **spp. n.** Madagascar p. 4, PIC Mélanges **30.**

Andrimus parvulus **sp. n.** Florida p. 67, BLATCHLEY Canad. Ent. **51.**

Hymenorus dichrous p. 66, *sabalensis* p. 67, **spp. n.**, Florida, BLATCHLEY T.c.

Microcistela **gen. n.** near *Cistelopsis, obscura* **sp. n.** New Guinea, PIC p. 6 Mélanges **30.**

Orchesiolobopoda **gen. n.** near *Lobopoda, minutissima* **sp. n.** Brazil, PIC p. 6 T.c.

Synallecula atrovittata, lateplagiata, p. 5, *ruficornis* p. 6, **spp. n.** Africa, PIC T.c.

MELANDRYIDAE.

Blatticephalus, vide *Catobleps* in Tenebrionidae.

Eustrophus bicolor, early stages, WEISS p. 132, Psyche **26.**

Orchesia castanea, early stages, WEISS p. 204 Canad. Ent. **51.**

LAGRIIDAE.

Casnonidea maculipennis **sp. n.** Sumatra p. 78, BLAIR J. Fed. Malay St. Mus. **8** pt. 3.

ANTHICIDAE, HYLOPHILIDAE.

Anthicus informipes **sp. n.** Simla p. 173 fig. 10, KREKICH-STRASSOLDO Ent. Mitt. **8.**—*A. dagestanicus, nicolasi* Transcaspian, *longipygus* Syria, *binotaticollis* Corsica, **spp. n.**, *corsicus* var. n. *valdoniellensis*, p. 10, *fasciatus* var. n. *codinai* p. 11, PIC Echange **35.**—*A. carthageniensis* var. n. *subopaculus* PIC Miscell. ent **24** p. 68.—*A. humilis* and allies, PUEL pp. 49–60 Miscell. ent. **24.**

Cnopus pinicola **sp. n.** India p. 244, CHAMPION Ent. Mo. Mag. **55.**

Euglenes securipes **sp. n.** Cameroons p. 174 fig. 11, KREKICH-STRASSOLDO Ent. Mitt **8.**

Formicomus gloriosus China, *aestimabilis* India p. 168, *sphinx* Cairo p. 171, *antiquus* Bengal p. 172, figs., **spp. n.**, KREKICH-STRASSOLDO T.c.

Leptaleus rodriguesi var. n. *postreductus*, PIC p. 10 Echange **35.**

Notoxus angustulus **sp. n.** Caucasus p. 166, KREKICH-STRASSOLDO Ent. Mitt. **8.**—*N. chaldeus* varr. n. *signatipennis* and *innotatus, monoceros* teratol., PIC p. 13 Echange **35.**

Pedilus parvicollis **sp. n.** California p. 216, FALL Canad Ent. **51.**

Tomoderus syriacus var. n. *innotatipennis*, PIC p. 10 Echange **35.**

Xylophilus bulbifer **sp. n.** India p. 244, CHAMPION Ent. Mo. Mag. **55.**

MORDELLIDAE.

Mordella pygidialis Herzegowina p. 612, *holomelaena* p. 614 with var. *sibirica* p. 615, *horvathi* p. 616, *purpurascens* p. 620, Europe, **spp. n.**, figs., APFELBECK Ann. Mus. Hungar. **12,** 1914.

RHIPIPHORIDAE.

Metoecus paradoxus, SUENSON Ent. Medd. **13** pp. 17–22.

Rhipidius denisi **sp. n.** Provence p. 200, larva p. 204 fig., CHOBAUT Bull. Soc. ent. France **1919.**

CANTHARIDAE OR MELOIDAE.

Cerocoma vahli, habits, CROS p. 248–252 Bull. Soc. ent. France **1919.**

Lytta (*Tetraolytta* subg. n.), *gerardi* **sp. n.** Brazil, *femoralis* varr. n. *porteri* and *singularicornis*, PIC p. 3 Echange **35.**

Macrobasis murina, a valid species, FISHER p. 1 Pr. ent. Soc. Washington **21.**

Tetraolytta **subg. n.** vide *Lytta.* Pic.

Tetraonyx maudhuii p. 2, *simsi* p. 3, **spp. n.**, Brazil, *dohrni* var. n. *remotus*, 4-*maculatus* var. n. *maculaticeps*, *clythroides* var. n. *subfasciatus*, p. 2, PIC Echange **35.**

Zonabris; habits, eggs, larvae, CROS p. 521–526 Ann. Soc. ent. France **87.**—*Z. bedeli* var. n. *augusti*, PIC p. 13 Echange **35.**—*Z. diversesignata* Tunis, *tarbatagaiensis* Siberia, **spp. n.**, also 9 varr. n., PIC p. 18 Echange **35**, *curticornis* Armenia, *mediobipunctata*, *subparallela*, Persia p. 19, *postbilunulata*, *kurdistanica*, *heteroclita*, *kuschkensis* Turkestan, *breveapicalis* Kohat, **spp. n.**, PIC p. 21 T.c.—*Z. corynoides* varr., PIC p. 18 hors texte Echange **35.**

OEDEMERIDAE.

Ascleropsis excellens **sp. n.** Asia minor p. 168, FLEISCHER Ent. Bl. **15.**

Asclerostoma **gen. n.** p. 169 near *Xanthochroina*, *reitteri* **sp. n.** Mallorca p. 170, FLEISCHER T.c.

Colobostomus griseovestitus var. n. *nitidus*, PIC p. 14 Echange **35.**

Ischnomera (*Asclera*) *koreana* **sp. n.** p. 168, FLEISCHER Ent. Bl. **15.**

Nacerdes melanura ab. n. *nigricollis*, REITTER p. 44 Ent. Bl. **14**, 1918.

Oedemera pallida Cairo p. 170, *rhodosica* Rhodes p. 171, **spp. n.**, FLEISCHER Ent. Bl. **15.**

Xanthochroa sumatrensis **sp. n.** p. 79, BLAIR J. Fed. Malay St. Mus. **8** pt. 3.—*X. carniolica* in Bosnia, PROSSNITZ p. 162–164 Ent. Bl. **11** 1915.

PYTHIDAE.

The genera of *Salpinginae*, BLAIR pp. 112–124 Ent. mo. Mag. 55.

Dromiosalpingus **gen. n.** p. 2 for *S. distincticollis* etc. Pic, PIC Mélanges **30.**

Falsolanthanus **gen. n.** p. 3 for *Lanthanus albonotatus* P., PIC T.c.

Lanthanus luridus **sp. n.** Colombia, PIC p. 2 T.c.

Lissodema ceylonicum p. 115, *lewisi* Ceylon, *dentigerum* Java, p. 116, *andrewesi* India p. 117, **spp. n.**, BLAIR Ent. mo. Mag. **55.**—*L.* (*Spinolissodema* subg. n.) *unifasciata* **sp. n.** Japan p. 3, PIC Mélanges **30.**

Neosalpingus brevis **sp. n.** Queensland p. 745, LEA P. Linn. Soc. N.S.W. **43.**

Notosalpingus parvulus **sp. n.** W. Australia p. 121, BLAIR Ent. mo. Mag. **55.**—*N. brunneus* **sp. n.** Tasmania p. 742, LEA P. Linn. Soc. N.S.W. **43.**

Oncosalpingus **gen. n.** p. 122, *podagricus* **sp. n.** Chile p. 123, BLAIR Ent. mo. Mag. **55.**

Platylissodema **gen. n.** p. 117 for *Lanthanus rouyeri* Pic, BLAIR T.c. — *P. maculata* **sp. n.** Nias p. 3, PIC Mélanges **30.**

Platysalpingus **gen. n.** p. 118 type *Rhinosimus wallacei* Pasc., *longirostris* p. 119, *approximatus* p. 120, **spp. n.**, New Guinea, and *Lanthanus albonotatus* Pic, BLAIR Ent. mo. Mag. **55.**—*P. rufonotatus* **sp. n.** New Guinea p. 3, PIC Mélanges **30.**

Sosthenes dufaui **sp. n.** Guadeloup, PIC p. 2 T.c.

Sphaeriestes, synonymy and composition, BLAIR pp. 123 and 124 Ent. mo. Mag. 55.

Spinolissodema **subg. n.** vide *Lissodema.* Pic.

Tasmosalpingus **gen. n.** p. 743, *quadrispilotus* p. 744, *promiscuus* p. 745, **spp. n.** Tasmania, LEA P. Linn. Soc. N.S.W. **43.**

Trichosphaeriestes **gen. n.** p. 121, *fryi* **sp. n.** Brazil p. 122, BLAIR Ent. mo. Mag. **55.**

CURCULIONIDAE.

Synopsis of the classification of the Curculionoidae, PIERCE P. ent. Soc. Washington **21** pp. 22–36: for new names of families reference must be made to the work itself.

The value of stridulation, KLEINE Ent. Bl. **15** pp. 183–201.

Jumping *Curculionidae*, URBAN pp. 246 & 247 Ent. Bl. **15.**

Acalles; notes on palaearctic, localities, etc., MEYER pp. 42–47 & 118–126 Ent. Bl. **15.**

Alcides mali **sp. n.** Assam p. 276 pl. xvii f. 3, MARSHALL Bull. ent. Res. **9.**—*A. figuratus* p. 1 fig. 15. *adversarius* fig. **14**, p. 558, *arenatus*, *plagiatus* fig. 18, p. 559, **spp. n.**, Philippines, SCHULTZE Philippine J. Sc. **15.**

Anaptoplus brunneus **sp. n.** Madagascar p. 471, HUSTACHE Ann. Soc. ent. France **87.**

Angianides trib. n. near Hylobiides p. 151 for, *Angianus* **gen. n.** with *pratti* **sp. n.** New Guinea p. 152, SHARP Ent. mo. Mag. **55.**

Anisorhynchus, stridulating organs, KLEINE pp. 36–42 Ent. Bl. **15.**

Antelmia **gen. n.** Brachydérides vrais p. 464, *viridissima* **sp. n.** Mauritius p. 465, HUSTACHE Ann. Soc. ent. France **87.**

Anthonomidius **subg. n.** vide *Anthonomus.* Reitter. 1915

Anthonomus (*Anthonomidius* subg. n.) *dilutus* Transbaikal, *A. subchalybeus* E. Siberia, p. 118, *cribratellus* Manchuria p. 119, **spp. n.**, REITTER Ent. Bl. **11**, 1915. —*A. pomorum*, habits, oviposition, SCHULZ pp. 363–371 SB. Ges. naturf. Fr. Berlin **1918**; habits, FRYER p. 208 Ann. appl. Biol. **6.**

Antinia Pasc. p. 273, *A. theivora* **sp. n.** Java p. 274 pl. xvii f. 3, MARSHALL Bull. ent. Res. **9.**

Aorus = (*Leptobaris* Gerst. = *Exarcus* Pasc.) p. 338, *cancellatus* Angola p. 341, *tenuipes* Beira p. 342, **spp. n.**, MARSHALL Ann. nat. Hist. **4.**

Apion (*Exapion*) *valentinum* **sp. n.** Spain p. 316, CLERMONT Bol. Soc. Españ. Hist. Nat. **19.**—*A. hibisci* early stages, WEISS DICKERSON J. New York Ent. Soc. **27** pp. pp. 47–49. *A. aragonicum*, food-plant, CHOBAUT p. 182 Bull. soc. ent. France 1919.

Barianus F. = (*Epiramphus* Ch.) p. 507, *gibbosus* p. 508, *striatus* p. 509, **spp. n.** Madagascar, HUSTACHE Ann. soc. ent. France **87.**

Bothynoderes; the species found in France, PUEL pp. 45–48 Miscell. ent. **24.**

Brachycerus rotundicollis **sp. n.** Spain p. 415, figs. 1, 2, ESCALERA Bol. Soc. Españ. **18**, 1918.

Bradybamon **gen. n.** p. 9 type *Strophosomus granicollis* Boh., *swalei* p. 10 pl. i f. 6, *regularis* p. 11, **spp. n.** E. Africa, MARSHALL Ann. nat. hist. **3.**

Catalalus minutus p. 505, *fasciatus* p. 506, **spp. n.** Madagascar, HUSTACHE Ann. Soc. ent. France **87.**

Cathormiocerus, note on Escalera's work, CHAMPION p. 67 Ent. mo. Mag. **55.**

Ceuthorrhynchus tyli, a valid species, ROUBAL p. 170 Ent. Bl. **11**, 1915. —*C. hampei* form n. *ochraceotinctus* Wagn. p. 74, NERESHEIMER & WAGNER Ent. Mitt. **8.**—*C. pulvinatus* & *roberti*, habits, URBAN p. 315 Ent. Bl. **13**, 1917.

Chalcocybebus assimils p. 276, *biroi* p. 277, *mesospilus* p. 279, *magdalenae* p. 280, **spp. n.** New Guinea, figs., GYÖRFFY Ann. Mus. Hungar. **15**, 1917.

Chaunoderus congoanus p. 57, *antennatus*, *t-album*, p. 58, **spp. n.**, HUSTACHE Ann. Soc. linn. Lyon **66.**

Chilodrusus otiorrhynchoides, *aleppensis*, p. 189, *fumosus* p. 190, **spp. n.** Aleppo, REITTER Col. Rundsch. **1913.**

Cleopomiarus **subg. n.** of *Miarus*, PIERCE p. 34 P. ent. Soc. Washington **21.**

Coeliodes dryados ab. n. *infuscatus* Neresh. p. 73, NERESHEIMER & WAGNER, Ent. Mitt. **8.**

Conotrachelus perseae **sp. n.** Guatemala p. 56 pl. ii, BARBER P. ent. Soc. Washington **21.**—*C. fissunguis*, early stages, WEISS & DICKERSON pp. 44–47 J. New York ent. Soc. **27.**

Coryssomerus robusticollis **sp. n.**, Egypt p. 14, PIC Echange **35.**

Cratopus = (*Antistius* Fairm.), HUSTACHE p. 476 Ann. Soc. ent. France **87.**

Cryptorhynchidius **gen. n.** = (*Cryptorhynchus* Sch.), PIERCE p. 25 P. ent. Soc. Washington **21.**

Cychrotonus, validity and composition, *ellipticus* p. 25 pl. i f. 7, *decoratus* p. 27, **spp. n.** Congo, MARSHALL Ann. nat. Hist. **3.**

Cyrotyphus variegatus **sp. n.** Tasmania p. 746, LEA P. Linn. Soc. N.S.W. **43.**

Cyrtops = (*Chlorastus* F.) p. 461, *albomaculatus* **sp. n.** Mayotte p. 463, HUSTACHE Ann. Soc. ent. France **87.**

Desmidophorinus **subg. n.** vide *Desmidophorus.* Hubenthal 1917.

Desmidophorus, the Indo-malayan species; *transversalis* Philippines p. 115, *nobilis* Tandjong Morawa p. 116, *breviusculus* Cambodia p. 119, *crassus* Formosa p. 200, *similis* Philippines p. 201, *probus* Rangoon p. 202, *suavis* Sumatra p. 203, *helleri* p. 205, *elongatus* p. 206, *D.* (*Desmidophorinus* subg. n. p. 111) *kolbei* Borneo p. 212, *hartmannianus* Sumatra p. 218, *faustı* Philippines p. 221, *schenklingi* Andamans p. 223, **spp. n.**; *funebris* var. n. *fulvopilosus* p. 213, *imhoffi* var. n. *propinquus* p. 223; HUBENTHAL Ent. Bl. **13,** 1917.—*D.* (*Desmidophorinus*) *bickhardti* **sp. n.** Tonkin p. 264 HUBENTHAL T.c.

Diethusa insignita **sp. n.** South Australia, ELSTON Trans. R. Soc. S. Aust **43** p. 346 f. 3.

Dinosius mocquerysi p. 467, *subglobosus* p. 468, **spp. n.** Madagascar, HUSTACHE Ann. Soc. ent. France **87.**

Dorytomus dilaticollis **sp. n.** Mongolia p. 161, REITTER Ent. Bl. **11,** 1915.

Dyscerus fletcheri p. 274 pl. xvii f. 1, *malignus* p. 275 f. 4, **spp. n.** Assam, MARSHALL Bull ent. Res. **9.**

Elleschus scanicus = (*Dorytomus nothus* Rey), HUSTACHE p. 38 Miscell. ent. **24.**

Eremotes, swedish, synonymy, KEMNER p. 169 Ent. Tidskr. **40.**

Eugnamptus decemsatus, HENRIKSEN, Kobenhavn Medd. Grønl. **56** 1918 pp. 203–206 2 figs.

Eupiona setosa **sp. n.** Congo p 61, HUSTACHE Ann. Soc. linn. Lyon **66.**

Gymnetron squamicolle, KUNNEMANN p. 101 Ent. Bl. **14,** 1918.—*G. hispidum,* synonymy, HUSTACHE p. 39 Miscell. ent. **24.**

Heilipus pittieri **sp. n.** Costa Rica p. 54, BARBER P. ent. Soc. Washington **21.**

Heterostylus nigropunctatus p. 65, *pilosus* p. 66, **spp. n.** Africa, HUSTACHE Ann. Soc. linn. Lyon **66.**

Holonychus violaceus, excavatus, **spp. n.** Madagascar p. 449, *curtipennis* F. var. *amethystimus* p. 445, HUSTACHE Ann. Soc. ent. France **87.**

Hypolagocaulus **gen. n.** near *Lagocaulus, stigmatracheloides,* p. 517, *decorsei* p. 518, **spp. n.** Madagascar HUSTACHE T.c.

Iphisomus amplicollis p. 493, *callosus, griseus,* p. 494, **spp. n.** Madagascar, HUSTACHE T.c.—*I. denticulatus* **sp. n.** Zanzibar p. 55, HUSTACHE Ann. Soc. linn. Lyon **66.**

Ischnotrachelus spinicollis **sp. n.** Congo p. 56, HUSTACHE T.c.

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Dactylispa krishna p. 181, *peregrina* p. 184, India, *lankaja* Ceylon p. 186, *trishula* p. 187, *harsha* p. 188, India, *prasastha* p. 189, *sadonensis*, Burma,

bindusara India, p. 193, *divarna* p. 194, *jiva* p. 195, Burma, *lohita* p. 197 India, *nandana* p. 202 Assam, *longula* p. 204, *ferrugineonigra* p. 208, *variabilis* p. 211, Burma, *pitapada* p. 212, *vestita* p. 214, India, *mahendra* p. 215, *bilasa* p. 216, Assam, *asoka* p. 218 Madras, *tissa* p. 219 Ceylon, *natika* p. 220 India, *kamarupa* p. 223 Assam, *daipa* p. 225 Andaman islds., *gairi* p. 227 Madras, *opaca* p. 228, *andamanensis* p. 229, Andaman islds., *parbatya* p. 234 India, *chaturanga* p. 237, *kantakita* p. 239, *tarusama* p. 240, Madras, *anula* p. 243 Assam, *pradhana* p. 244 Sikkim, *kunala* p. 245 Bombay, **spp. n.**, MAULIK Faun. brit. Ind. Hisp.

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Dolichotoma fuscopunctata **sp. n.** Brazil p. 121, SPAETH N. Beitr. syst. Insk. **1.**

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Leptispa rufithorax p. 78 Madras, *samkirna* p. 79 Ceylon fig. 23, **spp. n.**, MAULIK Faun. brit. Ind. Hisp.

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Oxynodera, table p. 133, *winkleri* **sp. n.** Chiriqui p. 135, SPAETH N. Beitr. syst. Insk. **1.**

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Timarcha brevipennis Algeria p. 19, *djerbensis* p. 20, **spp. n.**; also 4 varr. n.; PIC Echange **35.**—*T. metallica thiernei* subsp. n., KUNTZEN p. 231 S.B. Ges. naturf. Fr. Berlin **1919.**

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Wallacea dactyliferae p. 107 f. 34 Madras, *sita* p. 109 Burma, **spp. n.**, MAULIK Faun. brit. Ind. Hisp.

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EROTYLIDAE.

Cadne **subg. n.** vide *Episcaphula.*

Cedna **subg. n.** vide *Episcaphula.*

Decna **subg. n.** vide *Episcaphula.*

Episcaphula tripunctata p. 146 with subsp. *lunulata*, *minor*, p. 147, *cameruna* p. 148, with subspp. *centralis* & *latifasciata* p. 149, **spp. n.** Africa, HELLER Ent. Bl. **14**, 1918.

Episcaphula (*Cadne* subg. n. p. 287) *tripunctata separata* subsp. n. p. 276, *lindiana* p. 277, *basipunctata* p. 278, *ruficornis* p. 279 with subsp. *catangae* p. 280, *E.* (*Cedna* subg. n. p. 287) *sexsignata* p. 281, *tricolorata* p. 282, *E.* (*Decna* subg. n. p. 287) *ornatissima* p. 283, *E.* (*Lanugodacne* subg. n. p. 287) *trifisciata* p. 284, **spp. n.** Africa, HELLER T.c.

Lanugodacne **subg. n.** vide *Episcaphula.*

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ENDOMYCHIDAE.

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Eudemia bivittata var. n. *reducta*, PIC p. 13 Echange **35.**

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Colletes durbanensis, fusconotus, p. 192, *marleyi* p. 193, *martini* p. 191, *seminitens* p. 193, **spp. n.** COCKERELL Ann. Durb. Mus. **2.**—*C. rohweri* **sp. n.** Ecuador p. 206, COCKERELL P. ent. Soc. Washington **20.**

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marginifasciatus p. 176, *lateralis* var. n. *lateropictus* p. 181, *ferruginatus* n. n. for *Stenodynerus ferrugineus* Schulth. p. 298, *meade-waldoi* n. n. for *deceptor* M.-w. p. 305, BEQUAERT Bull. Amer. Mus. **39** 1918.—*O. vespoides* **sp. n.** Luzon p 51, WILLIAMS Bull. **14** Hawai. S.P. Ass.—*O. luzonensis* **sp. n.** p. 17, ROHWER Bull. **14** Hawaii. S.P. Ass.—*O.* (*Leionotus*) *mediocinctus* **sp. n.** Fiji, TURNER p. 339 Tr. ent. Soc. London **1918.**—*O. callosus*, hermaphrodite. RENGEL pp. 99–102 fig. S.B. Ges. naturf. Fr. Berlin **1917.**—*O. angustatus*, habits, JANSSON Ark. Zool. **12** No. 12 p. 2.

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Prenolepis zelotypa **sp. n.** E. Africa p. 238, SANTSCHI Rev. zool. afric. **6.**—*P.* (*Nylanderia*) *stigmaticus* **sp. n.** Solomon islds. p. 367 MANN Bull. Mus. Harvard **63.**—*P. fulva nesiotis* subsp, n. Galapagos p. 277, WHEELER P. Calif. Ac. **2.**

Pristomyrmex pegasus p. 338, *obesus* p. 339 with subsp. *melanoticus* p. 340, *mendanai* p. 341, **spp. n.** Solomon islds., MANN Bull. Mus. Harvard **63.**

Pseudoatta **gen. n.** p. 320, *argentina* **sp. n.** p. 321, figs., GALLARDO An. Mus. Buenos Aires **28** 1916.

Pseudomyrma filiformis, the forms of, figs., WHEELER pp. 124–131 Psyche **26.**

Rhachiocrema **subg. n.** vide *Crematogaster.* Mann.

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Solenopsis pawaensis p. 329, *cleptis* p. 330, **spp. n.** Solomon islds., MANN Bull. Mus. Harvard **63.**—*S. geminata* var. n. *galapageia* p. 272, *globularia pacifica* subsp. n. with var. *rubida* p. 273, Galapagos, WHEELER P. Calif. Ac. **2.**—*S. joergenseni* **sp. n.**, *basalis* var. n. *raptor*, SANTSCHI p. 42 An. Soc. Argent. **87.**

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Technomyrmex hypoclinoides **sp. n.** Congo p. 89, SANTSCHI Rev. zool. afric. **7.**

Tetramorium salomo p. 344, *melanogyna* p. 345, **spp. n.** Solomon islds., *scrobiferum* var. n. *elysii* p. 346, MANN Bull. Mus. Harvard **63.**—*T. aculeatum* var. n. *gladiator*, SANTSCHI p. 248 Rev. zool. afric. **6.**—*T. coloreum postpeliolata* st. n. p. 88, SANTSCHI Rev. zool. afric. **7.**

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Trapeziopelta breviloba **sp. n.** Borneo p. 143, WHEELER Bull. Mus. Harvard **63.**

Triglyphothrix mayri p. 351, *pulchella* p. 352, **spp. n.** Solomon islds., *fulviceps antennata* subsp. n. p. 350, MANN Bull. Mus. Harvard **63.**

Turneria pacifica **sp. n.** Solomon islds. p. 361, MANN T.c.

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Wasmannia bruchi **sp. n.** Argentina p. 43, SANTSCHI An. Soc. Argent. **87.**

Wheeleripone **gen. n.** p. 282 near *Stictoponera*, *albiclava* p. 284, *lucida*, *crenaticeps*, p. 284, **spp. n.** Solomon islds., MANN Bull. Mus. Harvard **63.**

Xenhybona **gen. n.** near *Epixenus* Em. type *mystes* **sp. n.** Teneriffe fig. 2, p. 405, SANTSCHI Bol. Soc. Españ. Hist. Nat. **19.**

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Cleptes blaisdelli **sp. n.** California p. 37, BRIDWELL P. Hawai. ent. Soc. **4.**

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Aethecerus punctifions **sp. n.** Sweden p. 6, ROMAN Ark. Zool. **12** No. 2.

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Amauromorpha = (*Eripternimorpha* Vicr.), CUSHMAN p. 528 P.U.S. nat. Mus. **55.**

Amblyteles spilopterus p. 158, *auricomus* p. 159, *testaceator* p. 160, **spp. n.** Africa, MORLEY P. zool. Soc. London **1919.**

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Angitia variegata, pseudocombinata, major, p. 372, *A.* (*Dioctes*) *gigantea, A. pusilla, antennalis* p. 373, *transversalis* p. 374, **spp. n.** Hungary, SZÉPLIGETI T.c.

Anilastus persimilis, pulcher, p. 378, *curvicaudis* p. 379, **spp. n.** Hungary, SZÉPLIGETI T.c.

† *Anomalon miocenicum* **sp. n.** Colorado p. 377, COCKERELL Amer. J. Sci. **47.**

Aptesis nivarius **sp. n.** Canada p. 21G, BRUES Rep. canad. arctic exp. **3.**

Atopognathus **gen. n.** p. 116 near *Ecbytus, collaris* **sp. n.** Virginia p. 119, CUSHMAN Pr. ent. Soc. Washington **21.**

Atractodes, notes on swedish pp. 21–29, *gravidus* var. n. *alpestris* p. 25, *holmgreni* p. 26 Sweden, *spiraculator* p. 28 Lapland, **spp. n.**, ROMAN Ark. Zool. **12** No. 2.—*A. muiri* Japan p. 167, *mallyi* Cape Town p. 168, **spp. n.**, BRIDWELL Proc. Hawai. ent. Soc. **4**.—*A. tenebricosus*, host, MORLEY p. 33 Entomol. **52**.

Barichneumon concinnator Abyssina p. 153, *planinotum* Algeria, *fossifer* Uganda, p. 154, MORLEY P. zool. Soc. London **1919**.

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Chasmias ruficaudator **sp. n.** E. Africa p. 157, MORLEY P. zool. Soc. London **1919**.

Chorischizus apicipennis **sp. n.** W. Australia p. 36, TURNER Ann. nat. Hist. **4**.

Christolia ? thoracica **sp n.** Brazil p. 289, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

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Coelichneumon scopulifer, *cornellifer*, p. 140, *sublunifer* p. 141, *geminifer*, *globulifer*, *sulcifer*, p. 142, *thyridifer*, *striatifer*, p. 143, **spp. n.** Africa, MORLEY P. zool. Soc. London **1919**.

Corymbichneumon **gen. n.** near *Coelichneumon*, *carinifer* **sp. n.** Ruwenzori, MORLEY p. 136 T.c.

Cratichneumon testacecolor **sp. n.** Uganda p. 153, MORLEY T.c.

Cratocryptus styriacus **sp. n.** p. 290, HABERMEHL Zeitschr. wiss. Insbiol. **14**.

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Cryptella **gen. n.** *Mesosteninae*, *crassicornis* **sp. n.** Brazil, SZÉPLIGETI p. 290 T.c. 1916

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Cryptohelcostizus **gen. n.**, *rufigaster* **sp. n.** California, CUSHMAN p. 534 P.U.S. nat. Mus. **55**.

Cryptoideus bicolor p. 537, *rufus* p. 538, **spp. n.** U.S., CUSHMAN T.c.

Crypturopsis tricolor p. 279, *persimilis*, *tibialis* p. 280, *brasiliensis*, *intermedius*, *variicoxa* p. 281, *rugosus*, *similis*, *scutellaris*, p. 282, *dubiosus*, *humeralis*, p. 283, **spp. n.** Amer. mer., SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Cryptus (*Meringopus*) *turkestanicus* Alai, *meridionalis* Spain, p. 243, *C. pilosus* Turkestan, *corsicus*, p. 244, *antennalis*, *alboscutellaris*, Hungary, *caudatus*, Germany, p. 245, *alboannalatus*, *carpathicus*, Hungary, *medius*, Turkestan, p. 246, *setosus* Algeria, *facialis* Hungary, p. 247, *rufiventris* Cape Colony, *saturalis* E. Africa p. 248, **spp. n.**, SZÉPLIGETI T.c.

Cryptus exul **sp. n.** Tasmania p. 558, TURNER Ann. nat. Hist. **3**.

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Ctenochares microcephala p. 126, *gracilentor* p. 127, **spp. n.** Africa, MORLEY T.c.

Cyanoxorides gloriosus Erythrea, *antennalis* Perak, p. 418, *javanus* p. 419, *australiensis* N.S.W. p. 420, **spp. n.**, SZÉPLIGETI Ann. Mus. Hungar. **12** 1914.—*C. erythrothorax* p. 389, *vitalisi* Tonkin p. 390, **spp. n.**, TURNER Ann. nat. Hist. **4.**

Cyrtobasis **gen. n.** p. 114 near *Naetes*, *rogae* **sp. n.** Colorado p. 115, CUSHMAN P. ent. Soc. Washington **21.**

Derocentrus **gen. n.** p. 113 for *Nematopodius texanus* and *gracilipes*, CUSHMAN T.c.

Dicamixus **gen. n.** *Mesosteninae*, *coriaceus* **sp. n.** Bolivia, SZÉPLIGETI p. 285 Ann. Mus. Hungar. **14** 1916.

Dihyboplax **gen. n.** near *Lissotheronia*, *flavipennis*, p. 148, *glauca*, *aeneipennis*, p. 149, **spp. n.** Amer. mer., ENDERLEIN S.B. Ges. naturf. Fr. Berlin **1919.**

Dioctes modestus **sp. n.** Canada p. 23G, BRUES Rep. canad. arctic exp. **3.**

Dinocryptus **gen. n.**, *tristis* **sp. n.** Celebes, SZÉPLIGETI p. 234 Ann. Mus. Hungar. **14** 1916.

Ecthromorpha quodi Vach. (as *Notiopimpla*) = (*exquisita* Morl.), *ceramacare* V. = (*bitecta* M.), *platymischa* V. = (*inermis* M.), TURNER p. 232 Ann. nat. Hist. **3.**—*E. immaculata* = (*diversor* Morl.) p. 110, *fuscator* = (*flavoorbitalis* Cam.) p. 111, BRIDWELL P. Hawai. ent. Soc. **4.**

Ephialtes ; nomenclatorial = (*Pimplidea* Vier.), CUSHMAN and ROHWER P. ent. Soc. Washington **20** p. 186.—*E. sannio* **sp. n.** Ecuador p. 153, ENDERLEIN S.B. Ges. naturf. Fr. Berlin **1919.**

Epijoppa pygidifer, *carinifer* p. 120, *triangulifer*, *striatifrons* p. 121, **spp. n.** Africa, MORLEY P. zool. Soc. London **1919.**

Epirhyssa peruana **sp. n.** p. 151, ENDERLEIN S.B. Ges. naturf. Fr. Berlin **1919.**

Eripternimorpha scirpophagae p. 563, *javensis* p. 564, *dammermani* p. 565, **spp. n.** Java, ROHWER P.U.S. nat. Mus. **54.**

Erythrojoppa rufipedalis p. 124, *nigripedalis* p. 125, **spp. n.** Africa, MORLEY P. zool. Soc. London **1919.**

Exetastes cyaneus **sp. n.** Turkestan p. 426, SZÉPLIGETI Ann. Mus. Hungar. **12** 1914.

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Gabunia rugosa **sp. n.** Congo p. 416, SZÉPLIGETI Ann. Mus. Hungar. **12** 1914.

Gambrus opacus, *bicolor*, *tegularis*, Hungary, *ruficeps*, p. 254, *unicinctus*, E. Africa, *variegatus* Bolivia, p. 255, *temporalis* Hungary, *thoracicus* S. France p. 256, *nigrifemur* Spain, *curiosus* France, p. 259, *semirufus* Syria p. 260, *coxalis*, *quadratus*, *pseudocryptus*, Hungary, p. 261, **spp. n.**, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Glodianus peruvianus **sp. n.** p. 276, SZÉPLIGETI T.c.

Glypta mutica **sp. n.** U.S., CUSHMAN p. 540 P.U.S. nat. Mus. **55.**

Goniocryptus punctatus **sp. n.** Hungary p. 250, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Gonioprymnus tarsalis **sp. n.** Congo p. 420, SZÉPLIGETI Ann. Mus. Hungar. **12** 1914.

Gonotypus intermedius, *minor*, *major*, **spp. n.** Hungary p. 352, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Grypocentrus rufiterminalis **sp. n.** U.S. p. 157, HALL Psyche **26.**

Haplomus **gen. n.** *Mesosteninae*, *fuscipennis*, p. 283, *pulcher*, *elegans*, p. 284, *bicolor* p. 285, **spp. n.** Amer. mer., SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Hedycryptus and *Hedycriptinae* to replace *Cryptus* and *Cryptinae*, BRADLEY p. 54 Tr. ent. Soc. London **1919.**

Helcostizus bicarinatus p. 532, *rufiscutum* p. 533, **spp. n.** U.S., CUSHMAN P.U.S. nat. Mus. **55.**

Hemiteles compactus Ashm. to *Aenoplex*, description, CUSHMAN T.c.

Henicospilus montaguei **sp. n.** New Caledonia p. 324, TURNER Ann. nat. Hist. **3.**

Heresiarchini, genera of, MORLEY p. 165 P. zool. Soc. London **1919.**

Holocremnus facialis **sp. n.** Hungary p. 379, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Hoplismenus fulvator **sp. n.** Uganda p. 135, MORLEY P. zool. soc. London **1919.**

Hoplocryptus caudatus **sp. n.** Hungary p. 253, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.—*H. rubi* **sp. n.** Algeria p. 287, HABERMEHL Zeitschr. wiss. Insbiol. **14.**

Hoplonopsis **gen. n.** *Cryptinae, cingulatus* **sp. n.** Java, SZÉPLIGETI p. 239 Ann. Mus. Hungar. **14** 1916.

Hoplophorina **gen. n.** *Cryptinae, nigra* **sp. n.** Peru, SZÉPLIGETI p. 238 T.c.

Hygrocryptus turkestanicus, similis, **spp. n.** Turkestan p. 249, SZÉPLIGETI T.c.

Hyposoter fugitivus var. n. *pacificus* p. 119, CUSHMAN Pr. ent. Soc. Washington **21.**

Ichneumon extensorius var. n. *cassonensis* p. 6, *luteorufus* **sp. n.** France p. 7, PIC Echange **35.**—*I. rubrornatus*, female, MORLEY p. 156 P. zool. Soc. London **1919.**

Isadelphus extensor **sp. n.** California p. 527, CUSHMAN P.U.S. nat. Mus. **55.**

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† *Mesopimpla* **gen. n.**, *sequoiarum* **sp.** n. Colorado miocene, COCKERELL p. 376 Amer. J. Sci. **47.**

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Mesostenus intermedius Hungary p. 325, *pulcher* p. 326, *melanius, alboclypeatus, senegalensis*, p. 327, *abdominalis* p. 328, Africa, *testaceus* New Guinea p. 329, *celebesiensis, bidentatulus*, p. 330, *unifasciatus, communis*, p. 331, *fragilis, subtilis* p. 332, New Guinea, *inferus* Java, *formosanus, albosignatus*, Formosa, p. 333, *hyalinus* Lombok, *quadratus* India, p. 334, *opacus, transiens, ultimus*, Formosa, *rufifemur* New Guinea, p. 335, *bispinosus* Costa Rica p. 336, **spp. n.**, SZÉPLIGETI T.c.

Microchorus **gen. n.** *Mesosteninae, mirabilis* **sp. n.** Java, SZÉPLIGETI p. 288 T.c. 1911

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Neomesostenus niger Hungary, *testaceus* p. 291, *transversus, petiolatus*, p. 292, Africa, *formosanus, indicus*, p. 293, *pusillus, persimilis, minutus, abdominalis*, India, *pulcher*, p. 294, *bicingulatus, alboscutellaris*, p. 295, *pulchripes*, p. 296, Singapore, *opacus, exareolatus, apicalis* p. 297, *semiglaber, filicornis*, p. 298, New Guinea, *albomaculatus* Bismarck archipel p. 299, *ruficeps, minor*, p. 300, *nigriceps, rufipes, tricolor*, p. 301, *variegatus, peruvianus*, p. 302, *semirufus, pleuralis*, p. 303, *paraguayensis, trochanteratus, femoralis*, p. 304, *annulatus, ruficoxa*, p. 305, *tarsalis, varicoxa*, p. 306, Amer. mer., **spp. n.**, SZÉPLIGETI T.c.

Neotypus obscurator **sp. n.** Nyasaland p. 168, MORLEY P. zool. Soc. London **1919.**

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Olesicampe lucida **sp. n.** Hungary p. 364, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Omergus hungaricus p. 356, *temporalis, major, caudatus*, p. 357, *xanthocarpus, completus*, p. 358, *semirufus, dubiosus, curticaudis*, p. 359, *nigrifemur, signatus*, p. 360, *punctulatus, bicingulatus, brevicornis* p. 361, **spp. n.** Hungary, SZÉPLIGETI T.c.

Ophionocryptus nigriceps p. 235, *tegularis, striolatus, lucidus, ruficoxa, minor*, p. 236, *punctulatus* p. 237, **spp. n.** Amer. mer., SZÉPLIGETI T.c.

Opisosextus concolor p. 239, *incompletus*, Brazil, *ruficeps* Mexico p. 240, **spp. n.**, SZÉPLIGETI T.c.

Osprynchotus aethiopicus, minor, **spp. n.** Africa p. 237, SZÉPLIGETI T.c.

Pachysoma **gen. n.** *Mesosteninae, albopictum* **sp. n.** Mexico, p. 290, SZÉPLIGETI T.c.

Panargyrops thoracicus **sp. n.** Kansas p. 528, CUSHMAN P.U.S. nat. Mus. **55.**

Paniscus; there are 3 subgenera, *Paniscus*, *Parabatus* and *Parabates*, BRADLEY pp. 319–324 Ann. nat. Hist. **3.**

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Paracryptus **gen. n.**, *hungaricus* **sp. n.**, SZÉPLIGETI p. 251 Ann. Mus. Hungar. **14** 1916.

Phaenolobus major **sp. n.** Hungary p. 424, SZÉPLIGETI Ann. Mus. Hungar. **12** 1914.

Phaeogenes setiger **sp. n.** Sweden p. 5, ROMAN Ark. zool. **12** No. 2.—*P* (*Centeterus*) *ineptifrons* **sp. n.** U.S. p. 113, GAHAN P.U.S. nat. Mus. **55.**

Phobocampe albitarsis **sp. n.** Hungary p. 151, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

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Pimpla vitalisi **sp. n.** Mekong p. 427, TURNER T.c.

† *Pimpla eocenica* **sp. n.** Colorado eocene, COCKERELL p. 122 Entom. **52.**

Platylabus atricinctus p. 168, *mediorufus* p. 169, **spp. n.** Africa, MORLEY P. zool. Soc. London **1919.**

Polyaenus striatus Formosa p. 264, *albomarginatus* p. 265, *lucidus*, *similis*, *scutellaris*, p. 266, *rugosus*, *liopleuris*, *longipes*, p. 267, *areolaris* p. 268, Amer. mer. **spp. n.**, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Polyblastus fulvilinealis p. 155, *scopioroides*, *kaniacensis*, p. 166, **spp. n.** U.S., HALL Psyche **26.**—*P. arcticus* **sp. n.** Canada p. 22G, BRUES Rep. canad. arctic exp. **3.**

Polycyrtus rugulosus, *clypealis*, p. 270, *xanthocarpus*, *caudatus*, *similis*, *albispina*, p. 271, *canaliculatus*, *surinamensis*, *rufipleuris*, *alboannulatus*, p. 272, *semirufus*, *emaculatus*, *excavatus*, *nigrotibralis*, *marginatus*, p. 273, *gibbulus*, *nudus*, p. 274, *trochanteratus*, *nigricornis*, p. 275, **spp. n.** Amer. mer., SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Prinopoda media **sp. n.** U.S. p. 158, HALL Psyche **26.**

Proterocryptini **n.** tribe of *Tryphonini* for *Proterocryptus* Ashm., CUSHMAN p. 543 P.U.S. nat. Mus. **55.**

Protocryptus surinamensis, *persimilis*, *minor*, Am. mer., *signatus* Costa Rica, p. 228, *lucidulus* Surinam p. 229, **spp. n.**, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Pseudeugalta aspasia **sp. n.** Indochina p. 391, TURNER Ann. nat. Hist. **4.**

Pseudomansa **gen. n.** *Cryptinae*, *major* New Guinea p. 229, *minor* Formosa p. 230 **spp. n.**, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Pseudonemeritis **gen. n.** p. 338 *Campopleginae*, *major*, *minor*, **spp. n.** Hungary p. 339, SZÉPLIGETI T.c.

Pterocryptus **gen. n.**, *niger* **sp. n.** Hungary, SZÉPLIGETI T.c.

Scopiorus plagosus **sp. n.** U.S. p. 159, HALL Psyche **26.**

Siphimedia pulchra **sp. n.** Sierra Leone p. 425, SZÉPLIGETI Ann. Mus. Hungar. **12** 1914.

Spilichneumon didymatus p. 161, *unipunctor*, *triangulator*, p. 162, **spp. n.** Africa, MORLEY P. zool. Soc. London **1919.**

Spilocryptus algericus, *pygmaeus*, p. 238, *cecropiae* p. 239, *ratzeburgi*, *heydeni* Simplon, p. 285, **spp. n.**, HABERMEHL Zeitschr. wiss. Insbiol. **14.**—*S. exannulatus* **sp. n.** U.S. p. 529, CUSHMAN P.U.S. nat. Mus. **55.**

Stenaraeus corsicus p. 321, *emaculatus* New Guinea, *elongatus* Roon isld. p. 322, *ruficoxis* Singapore, *pilosus* Borneo, p. 323, *tuberculatus* Moluccas p. 324, *formosanus*, *rufipes*, Formosa, *novoguineensis*, p. 325, **spp. n.**, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Stenarella **gen. n.** *Mesosteninae*, *hungarica*, p. 307, *thoracica* E. Africa, *pilosa* Formosa, p. 308, *apicalis*, *gracilis*, p. 310, *interrupta*, *basalis*, p. 311, *nigritarsis*, *temporalis*, *leviceps*, p. 312,

frontalis p. 313, *major*, *alterna*, *ingenita*, p. 314, *tuberculata*, *tegularis*, p. 315, New Guinea, *colorata* p. 316, *setosa*, *bifasciata*, p. 317, *utilis*, *inermis*, *brevicaudis*, p. 318, *rufigaster* p. 319, *longipes*, *nigra*, p. 320, *persimilis* p. 321, Amer. mer. **spp. n.**, SZÉPLIGETI T.c.

Stenichneumon ochraceator **sp. n.** Nigeria p. 152, MORLEY P. zool. Soc. London **1919.**

Stictopisthius australiensis **sp. n.** Townsville p. 433, SZÉPLIGETI Ann. Mus. Hungar. **12** 1914.

Stilpnus rectangulus **sp. n.** Sweden p. 30, ROMAN Ark. Zool. **12** No. 2.

Sycophrurus **gen. n.** *Cryptini* p. 77, *hesperophanis* **sp. n.** Montpellier p. 78, PICARD Bull. Soc. ent. France **1919**.

Thaumatotypidea fusca p. 138, pl. i, fig. iii–iv, Espagne, *santschii* p. 140, pls. ii–vii, p. 141, figs. ii–ix, pl. ii Tunisie, *cabrerai* p. 142, pl. 1, fig. ii, and figs. iv–viii, pt. ii, Espagne, **spp. n.**, DUCHAUSSOY, Bull. Soc. Alger. **6** 1915.

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† *Theronia wickhami* **sp. n.** miocene Colorado p. 378, COCKERELL Amer. J. Sci. **47.**

Thymaris americanus **sp. n.** Virginia p. 381, CUSHMAN P.U.S. nat. Mus. **56.**

Trachyarus brevipennis p. 7, *specularis* p. 8, **spp. n.** Lapland, ROMAN Ark. Zool. **12** No. 2.

Trapezonalis **gen. n.** p. 231 *Cryptinae*, *fuscipennis* Brazil, *hyalinipennis* Honduras, **spp. n.** p. 232, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Trichomma elegantula **sp. n.** Queensland p. 556, TURNER Ann. nat. Hist. **3.**

Trogus gryps **sp. n.** Uganda p. 122, MORLEY P. zool. Soc. London **1919.**

† *Tryphon explanatum* **sp. n.** miocene Colorado p. 378, COCKERELL Amer. J. Sci. **47.**

Xanthocryptus monticolus **sp. n.** Tasmania p. 40, TURNER Ann. nat. Hist. **4.**

Xanthojoppa debilitor, *rotundator*, p. 130, *truncator*, *explanator*, p. 131, *gracilator*, *striator*, *bipapillator*, *collifer*, p. 132, *cothurnator*, *geminator*, *areolator*, p. 133, **spp. n.** Africa, MORLEY P. zool. Soc. London **1919.**—*X. kali* Assam p. 162, *fossifrons* Uganda p. 163, **spp. n.**, MORLEY T.c.

Xorides indicus Darjiling p. 422, *rufithorax* Formosa p. 423, **spp. n.**, SZÉPLIGETI Ann. Mus. Hungar. **12** 1914.

Xylonomus vitiosus **sp. n.** Indo-China p. 482, TURNER Ann. nat. Hist. **3.**—*X. crudelis* **sp. n.** Queensland p. 553, TURNER T.c.

Xylophrurus meridionalis Dalmatia p. 238, SZÉPLIGETI Ann. Mus. Hungar. **14** 1916.

Zagryphus **gen. n.** p. 377 *Thymaridini* for *Mesoleptus nasutus* Cr., CUSHMAN P.U.S. nat. Mus. **56.**

Zonopimpla ashmeadi **sp. n.** Brazil p. 147, ENDERLEIN SB. Ges. naturf. Fr. Berlin **1919.**

BRACONIDAE (incl. ALYSIIDAE).

Synonymy of genera, BRADLEY p. 59 Tr. ent. Soc. London **1919.**

British *Rhogadidae*, LYLE pp. 134 etc. Entom. **52.**

Falcate mandibles of larvae, BRIDWELL p. 109 P. Hawai. ent. Soc. **4.**

Alysia lusoriae **sp. n.** Cape Town p. 175, BRIDWELL P. Hawai. ent. Soc. **4.**

Amyosoma leuzerae **sp. n.** Java p. 567, ROHWER P. U.S. nat. Mus. **54.**

Apanteles gabrielis **sp. n.** Lyons p. 310, GAUTIER & RIEL p. 310 Bull. Soc. ent. France **1919.**—*A.* (*Protapanteles*) *bataviensis*, *A. belippae* p. 566, *javensis* p. 567, **spp. n.**, Java, ROHWER P. U.S. nat. Mus. **54.**—*A. expulsus* **sp. n.** Fiji p. 346, TURNER Tr. ent. Soc. London **1918.**—*A. iselyi* **sp. n.** Arkansas p. 120, CUSHMAN Pr. ent. Soc. Washington **21.**—*A. phigaliae* p. 113, *compressus* p. 114, **spp. n.**, U.S., MEUSEBECK Canad. Ent. **51.**—*A. stagmatophorae* **sp. n.** Maryland p. 120, *empretiae* = (*sibinidis* Rohw.) *fumiferanae* = (*polychrosidis* Vier.), p. 121, GAHAN P. U.S. nat. Mus. **55.**—*A. sicarius*, habits, LICHTENSTEIN & PICARD p. 64 Bull. Soc. ent. France **1919.**—*A. glomeratus*, natural history, GATENBY pp. 19–26 figs. Ent. Mo. Mag.

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Aphaereta sarcophagae **sp. n.** Cape Town p. 177, BRIDWELL P. Hawai. ent. Soc. **4.**

Ascogaster rugosa p. 48, *argentea* p. 49, **spp. n.** Java, FULLAWAY J. Straits Asiat. Soc. **80.**

Austroopius amboinensis **sp. n.** p. 58, FULLAWAY T.c.

Beognatha gracilis **sp. n.** Larat p. 49, FULLAWAY T.c.

Bassus immaculatus p. 118, *usitatus* p. 119, **spp. n.** U.S., GAHAN P. U.S. nat. Mus. **55.**

Biroia nigra p. 52 Ceram [but altered in M.S. to Borneo], *ochracea* p. 53 Ceram, *ferruginea* p. 54 Java, **spp. n.**, FULLAWAY J. Straits Asiat. Soc. **80.**

Bracon conspiciendus **sp. n.** New Caledonia p. 231, TURNER Ann. nat. Hist. **3.**

†*Bracon florissanticola* **sp. n.** miocene Colorado p. 379, COCKERELL Amer. J. Sci. **47.**

Braunsia variegata **sp. n.** Borneo p. 55 f. 2, FULLAWAY J. Straits Asiat. Soc. **80.**

Brulleia euphemia **sp. n.** Tonkin p. 387, TURNER Ann. nat. Hist. **4.**

Campyloneurus latesuturalis **sp. n.** Mekong p. 429, TURNER Ann. nat. Hist. **3.**

Chelonus vitiensis **sp. n.** Fiji p. 245, TURNER Tr. ent. Soc. London **1918.**—*C.* (*Chelonella*) *proteus* **sp. n.** Maryland p. 116, GAHAN P. U.S. nat. Mus. **55.**

Colastes javanus **sp. n.** Buitenzorg p. 43, FULLAWAY J. Straits Asiat. Soc. **80.**

Cremnops mekongensis **sp. n.** p. 431, TURNER Ann. nat. Hist. **3.**

Cyanopterus rutilans **sp. n.** New Caledonia p. 230, TURNER T.c.

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Doryctes maculipennis **sp. n.** California, ROHWER P. ent. Soc. Washington **21.**

Ecphylus hicoriae **sp. n.** New York p. 161, ROHWER Canad. Ent. **51.**

Euagathis dubiosus **sp. n.** Mekong p. 432, TURNER Ann. nat. Hist. **3.**—*E. spilota* Java p. 50, *pallida* Celebes p. 51, *hongkongensis* China p. 52, **spp. n.**, FULLAWAY J. Straits Asiat. Soc. **80.**

Eumorpha vitalisi **sp. n.** Mekong p. 430, TURNER Ann. nat. Hist. **3.**

Gymnoscelus rugidorsalis **sp. n.** Tonkin p. 388, TURNER Ann. nat. Hist. **4.**

Hedylus desideratus p. 172, *clypeatus* p. 174, **spp. n.** Nigeria, BRIDWELL P. Hawai. ent. Soc. **4.**

Helcon = (*Wroughtonia* Cam.), TURNER p. 487 Ann. nat. Hist. **3.**

Hemigyroneuron dubiosus **sp. n.** Papua p. 46 f. 5, FULLAWAY J. Straits Asiat. Soc. **80.**

Heterogamoides **gen. n.** p. 43 near *Rhogas*, *muirii* **sp. n.** Java p. 44 f. 6, FULLAWAY T.c.

Heterospilus blackmanni **sp. n.** New York p. 161, ROHWER Canad. Ent. **51.**

Hormiopterus choenobivorus **sp. n.** Java p. 570, ROHWER P. U.S. nat. Mus. **54.**

Ischiogonus malayensis Malay penins. p. 41, *fijiensis* p. 42, **spp. n.**, FULLAWAY J. Straits Asiat. Soc. **80.**

Laminitarsus **gen. n.** p. 57 *Cardiochilinae*, *muiri* **sp. n.** Philippines p. 58 f. 3, FULLAWAY T.c.

Liobracon manni **sp. n.** Hayti p. 69, BRUES Psyche **26.**

Macrostomion malayensis Malay penins. p. 44, *amboinensis* p. 45 f. 1. **spp. n.**, FULLAWAY J. Straits Asiat. Soc. **80.**

Metzorus triangularis **sp. n.** U.S. p. 115, MEUSEBECK Canad. Ent. **51.**

Microbracon pembertoni p. 115, *swezeyi* p. 116, **spp. n.**, Oahu, BRIDWELL P. Hawai. ent. Soc. **4.**—*M.* **sp. n.** Honolulu p. 169, BRIDWELL T.c.

Microdus amboinensis p. 56, *distinctus* p. 57, **spp. n.** Amboina, FULLAWAY J. Straits Asiat. Soc. **80.**

Microgaster connexus, natural history, hyper-parasites etc., GATENBY J. Linn. Soc. **33** p. 387–416, 3 pls.

Muiriella **gen. n.** *Sigalphinae* near *Polydegmon, concisa* **sp. n.** Larat f. **4**, FULLAWAY p. 47 J. Straits Asiat. Soc. **80**.

Oncophanes hesperidis **sp. n.** Java p. 569, ROHWER P. U.S. nat. Mus. **54**.

Opius cupidus p. 162, *turneri* p 163, *downesi* p. 164, *richmondi* p. 165, *lectus* p. 167, Am. bor., *trinidadensis* p. 168, *cereus* p. 169, Trinidad, **spp. n.**, GAHAN Pr. ent. Soc. Washington **21**.—*O. lantanae* **sp. n.** Oahu p. 170, BRIDWELL P. Hawai. ent. Soc. **4**.—*O. melleus* = (*Biosteres rhagoletis* Richm.), GAHAN p. 123 P. U.S. nat. Mus. **55**.

Orgilus dioryctriae **sp. n.** California p. 121, GAHAN T.c.

Pedinotus javanus **sp. n.** Roban p. 40, FULLAWAY J. Straits Asiat. Soc. **80**.

Platybracon distinctus **sp. n.** Amboina p. 39, FULLAWAY T.c.—*P. javensis* **sp. n.** Java p. 568, ROHWER P. U.S. nat. Mus. **54**.

Rhogas cantherius **sp. n.** England p. 153, LYLE Entom. **52**.

Trioxys cupressicola **sp. n.** California p. 116, GAHAN P. U.S. nat. Mus. **55**.

STEPHANIDAE.

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Copidosomopsis javensis **sp. n.** p. 56, GIRAULT Treubia **1.**

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Sphinx dolli engelhardti subsp. n. Utah p. 104 pl. xi f. 3, CLARK T.c.

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Canopia melanocera Queensland p. 71, *aurifera* Assam p. 73, *opalizans* Sula Mangoli, *ignicauda* India, p. 74, **spp. n.**, HAMPSON T.c.

Dasysphecia **gen. n.** near *Megalosphecia*, for *S. bombiformis* Rothsch., HAMPSON p. 79 T.c.

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Episannina flavicincta **sp. n.** Gold coast p. 55, HAMPSON T.c.

Gaea leucozona **sp. n.** Assam p. 63, HAMPSON T.c.

Glossecia **gen. n.** near *Bembecia* type *Sesia igniflua* Luc., HAMPSON p. 113 T.c

Glossosphecia **gen. n.** near *Aegeria* for *Sphecia contaminata* Butl., HAMPSON p. 83 T.c.

Grypopalpia **gen. n.** p. 52 near *Aschistophleps*, *iridescens* **sp. n.** Natal p. 53, HAMPSON T.c.

Homogyna ignivittata Transvaal p. 110, *pyrophora* Natal, *sanguicosta* Cameroons, p. 111, *albicincta* Centr. Africa p. 112, **spp. n.**, HAMPSON T.c.—*H. spadicicorpus* **sp. n.** Rhodesia p. 190, PROUT Ann. nat. Hist. 3.

Hypanthedon **gen. n.** p. 62 near *Synanthedon* type *Aegeria marisa* Druce, HAMPSON Nov. zool. 26.

Hypomelittia **gen. n.** near *Melanosphecia*, *hyaloptera* **sp. n.** Burma, HAMPSON p. 96 T.c.

Lepidopoda xanthogyna Queensland, *pictipes* Rhodesia p. 54, *sylphina* W. Africa p. 55, **spp. n.**, HAMPSON T.c.

Lophoceps **gen. n.** near *Chamaesphecia*, *abdominalis* p. 69, *quinquepunctata*, Africa, *tetrazona*, *cyaniris*, Assam p. 70, **spp. n.**, HAMPSON T.c.

Macroscelesia **gen. n.** for *Melittia longipes* Moore, HAMPSON p. 8 T.c.

Macrotarsipus microthyris **sp. n.** Africa p. 58, HAMPSON T.c.

Megalosphecia callosoma **sp. n.** Rhodesia p. 78, HAMPSON T.c.

Melanosphecia dohertyi **sp. n.** Obi p. 96, HAMPSON T.c.

Melittia pyropis p. 84, *endoxantha* p. 85, *chrysoblapta*, *amblyphaea*, *acosmetes*, p. 86, Africa, *moluccaensis* Batchian, *elaea* Assam, p. 89, *leucogaster* Java, *dichroipus* Burma, p. 90, *japona* Yokohama p. 91, *callosoma* Sumatra, *flaviventris* Ceylon, *proserpina* Queensland, p. 92, *lentistriata* p. 93, *xanthogaster*, E. Africa, *ectothyris* Transvaal, p. 94, *abyssiniensis* p. 95, **spp. n.**, HAMPSON T.c.

Micrecia **gen. n.** near *Bembecia*, *methyalina* **sp. n.** Kei islds., HAMPSON p. 113 T.c.

Monopetalotaxis sinensis Shanghai, *chalciphora* C. Africa, **spp. n.**, p. 59, HAMPSON T.c.

Neotinthia **gen. n.**, *semihyalina* **sp. n.** Burma, HAMPSON p. 115 T.c.

Oligophlebia subapicalis **sp. n.** Burma p. 52, HAMPSON T.c.

Paradoxecia **gen. n.** for *Aegeria gravis* Walk., HAMPSON p. 114 T.c.

Paranthrene propyria, *thalassina*, *chalcochlora xanthopyga*, Africa p. 101, *pentazonata* New Britain p. 102, *flavifrons* New Guinea, *albifrons* Burma, *canarensis* India, p. 103, *opalescens* Celebes p. 104, *aurifera* Assam p. 105, *cuprescens* E. Africa p. 106, *mesothyris* Natal, *leucocera*, p. 107, *microthyris*, New Britain, *carulifera* Queensland, p 108, *zygophora* Borneo, *metaxantho* Burma, p. 109, **spp. n.**, HAMPSON T.c.

Podosesia surodes **sp. n.** C. Africa p. 63, HAMPSON T.c.

Pyranthrene **gen. n.** near *Paranthrene*, *flammans* **sp. n.** C. Africa, HAMPSON p. 110 T.c

Similivepsis lasiocera **sp. n.** Assam p. 114, HAMPSON T.c.

Sphecia asamaiensis **sp. n.** Japan p. 81, HAMPSON T.c.

Sphecosesia aterea **sp. n.** Mindanao p. 77, HAMPSON T.c.

Sura pyrocera, *rufitibia*, Africa p. 98, *phoenicia* Borneo, *cyanea* Java, p. 99, **spp. n.**, HAMPSON T.c.

Synanthedon hypochalcia Assam, *erythromma*, p. 60, *rubripicta*, Africa, *pyrosema* Assam, p. 61, **spp. n.**, HAMPSON T.c.

Thyranthrene gen. n. type *Lepidopoda obliquizona* H., *metazonata* sp. n. Natal, HAMPSON p. 97 T.c.

Tinthia xanthospila sp. n. Queensland p. 115, HAMPSON T.c.

Tipulamima pyrosoma p. 56, *nigriceps* p. 57, spp. n. Africa, HAMPSON T.c.

Tradescanticola gen. n. p. 64 type *Sesia uniformis* Sn., HAMPSON T.c.

Trichocerota radians p. 116, *intervenata, fulvistriga, dizona* p. 117, Assam, *brachythyra* Celebes p. 118, spp. n., HAMPSON T.c.

Trilochana chalciptera sp. n. Madras p. 83, HAMPSON T.c.

Zenodoxus aurantia Assam p. 118, *flavicincta* Borneo p. 119, spp. n., HAMPSON T.c.

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Catalogue of *Arctiinae*, 169 genera, 2007 species, 416 pp., with some new nomenclature; part 22 of Lep. Cat.

Acutia gen. n. p. 89 *Syntomidae, bidensis* sp. n. Sarawak p. 90, KAYE Ann. Nat. Hist. 4.

Adelocephala apollinairei sp. n. Colombia p. 10, DOGNIN Hét. 15.

Aethria tenumarginata sp. n. Guiana p. 90, KAYE Ann. nat. Hist. 4.

Agylla haighti sp. n. Luzon p. 49, WILEMAN & SOUTH Entomol. 52.

Amastus thermidora sp. n. Ecuador p. 4, DOGNIN Mém. Soc. ent. Belgique 22 1913.—*A. formosana* sp. n. Argentina p. 174, SCHAUS Ent. News 30.

Anthrocera achilleae, distribution and variation, ROWLAND-BROWN Entom. 52 pp. 217–225.

Arctia caja, ab. fig., BOWMAN p. 102 P.S. London ent. Soc. 1918–19.

Argyrophleps hova Madagascar, *psyche*, p. 28, *atriplaga* p. 30, Africa, spp. n., LE CERF Bull. Mus. Paris 1919.

Asura luzonica sp. n. Philippines p. 51, WILEMAN & SOUTH Entomol. 52. —*A. punctilineata* p. 268, *inornata, A. ? ocellata*, p. 269, spp. n. Philippines, WILEMAN & SOUTH T.c.

Automeris themis sp. n. Cayenne p. 8, *eophila* n.n. for *aurora* Dogn. p. 9, DOGNIN Hét. 15.

Automolis chionoplaga sp. n. Panama p. 3, DOGNIN Mém. Soc. ent. Belgique 22, 1913.

Bunaea epithyrena var. n. *cremeri*, OBERTHÜR p. 336 Bull. Soc. ent. France 1919, 1920.

Celama curvilinea sp. n. Mindanao p. 271, WILEMAN & SOUTH Entom. 52.

Chalconycles ? chalybeia sp. n. C. Africa p. 290 pl. xxiii f. 63, REBEL Ann. Hofmus. Wien 28, 1914.

Chionaema gonypetes Mindanao p. 165, *brunneistriga, additicia*, Africa p. 166, spp. n., PROUT Ann. nat. Hist. 3.

Chlorhoda metamelaena sp. n. Colombia p. 4 DOGNIN Mém. Soc. ent. Belgique 22 1913.

Chloroda rufolivacea sp. n. Colombia p. 312, SEITZ Fauna exot. Americana 6.

Chrysasura literata sp. n. Mindanao p. 50, WILEMAN & SOUTH Entomol. 52.

Chrysocale olivotincta sp. n. hab. ?, KAYE p. 88 Ann. nat. Hist. 4.

Coreura sinerubra sp. n. Peru p. 92, KAYE T.c.

Correbia fulvescens sp. n. Panama p. 2, DOGNIN Mém. Soc. ent. Belgique 22 1913.

Cosmosoma albifrons sp. n. Panama p. 1, DOGNIN T.c.

Cossus cirrilator sp. n. Madagascar p. 107, LE CERF Bull. Mus. Paris 1919.

Cyana luzonica sp. n. p. 49, WILEMAN & SOUTH Entomol. 52.

Cyanopepla fulgurata Peru, *parvistria* hab. ?, spp. n. p. 89, KAYE Ann. nat. Hist. 4.

Dalaca, defined p. 240 figs. p. 246, *troglodytis* p. 241, *leucophaea* p. 243, *semicanus* p. 244, spp. n. S. Africa, JANSE Rec. Albany Mus. 3.

Dasychira fascelina caucasica subsp. n. p. 131, SHELJUZHKO N. Beitr. syst. Insk. 1.

Delphyre leucomela sp. n. Guiana p. 93, KAYE Ann. nat. Hist. 4.—*D. totilla* var. n. *coeruslescens*, DOGNIN p. 4 Hét. nouv. 17.

Depalpata gen. n. near *Burgena, mirabilis* sp. n. New Guinea, ROTHSCHILD Ann. nat. Hist. 3.

Diacrisia roseicincta **sp. n.** Colombia p. 4, DOGNIN Mém. Soc. ent. Belgique **22** 1913.—*D. nyanzae* n.n. for *pardalina* Rothsch., *punctilineola* n.n. for *punctilinea* Wile., STRAND p. 416 Cat. Arct.—*D. virginica*, food-plants and habits, MITCHELL pp. 191–194 Ent. News **30**.

Diaphora mendica, colour, COCKAYNE pp. 101–104 Ent. Rec. **31**.

Dicentria phthimena **sp. n.** Mexico p. 82, DYAR Insec. inscit. **7**.

Dryocampa floresi **sp. n.** Argentina p. 359, GIACOMELLI An. Mus. Buenos Aires **27** 1915.

Encyane phlegon constrictifascia subsp. n. p. 3, DOGNIN Hét. **15**.

Epicopeia leucomelaena **sp. n.** Yunnan p. 175, OBERTHÜR Bull. Soc. ent. France **1919**.

Episcepsis phlebitis **sp. n.** Belize p. 2, DOGNIN Mém Soc. ent. Belgique **22** 1913.

Eremocossus senegalensis **sp. n.** p. 27, LE CERF Bull. Mus. Paris **1919**.

Euagra monoscopa **sp. n.** Ecuador p. 91, KAYE Ann. nat. Hist. **4**.

Euproctis semisignata, variation, SENIOR-WHITE p. 83 Spolia zeylan. **11**. —*E. bimaculata* = (*Porthesia isabellina* Heyl.), EECKE p. 165 Ber. Nederl. ent. Ver. **5**.—*E. chrysorrhoea*, THEOBALD p. 169 Entom. **52**.

Eurosia? costinotata **sp. n.** Philippines p. 50, WILEMAN & SOUTH Entomol. **52**.

Geodena ochricosta **sp. n.** C. Africa p. 289 pl. xxiv f. 74, REBEL Ann. Hofmus. Wien **28** 1914.

Goodia violascens **sp. n.** C. Africa p. 279 pl. xxiii f. 56, REBEL T.c.

Gorgopis, redefined p. 236, figs. p. 246, *crudeni* p. 237, *auratilis* p. 238, *fuscalis* p. 239, **spp. n.** S. Africa, JANSE Rec. Albany Mus. **3**.—*G. crudeni*, larva, HARDENBERG pp. 247–256, T.c.

Halisidota sobrinella n.n. for *sobrina* Motsch., STRAND p. 416 Cat. Arct.

Heliactinidia austriaca **sp. n.** Ecuador p. 298, SEITZ Fauna exot. Americana **6**,

Heliura quadriflavata **sp. n.** Guiana p. 92, KAYE Ann. nat. Hist. **4**.

Hemiteuca lucina var. *latifascia*, attracted by fire, CRIDDLE p. 99 Canad. Ent. **51**.—*H. venosa nigra* subsp. n. Bogota p. 5, DOGNIN Mém. Soc. ent. Belgique **22** 1913.

Hepialidae; the coloration, van BEMMELEN pp. 167–189 Zool. Anz. **48** 1916.

Hepialus tanganyicus **sp. n.** p. 291 pl. xxiii f. 57, REBEL Ann. Hofmus. Wien **28** 1914.—*H. ptiloscelis* **sp. n.** Cape colony p. 230, MEYRICK Exot. Microlep. **2**.

Hylesia mixtiplex n.n. for *multiplex* Dogn. 1916, DOGNIN p. 9 Hét. **15**.

Hyphantria postalbida **sp. n.** C. Africa p. 290 pl. xxiii f. 64, REBEL Ann. Hofmus. Wien **28** 1914.

Hypophassus **gen. n.** p. 470 type *P. signifer* Walk., *crenilimbata* **sp. n.** China p. 471, LE CERF Bull. Mus. Paris **1919**.

Ilema costalba **sp. n.** Luzon p. 50, WILEMAN & SOUTH Entomol. **52**.

Ino globulariae, early stages, BRAMWELL p. 214 Entom. **52**.

Isostola thabena **sp. n.** Colombia p. 7, DOGNIN Hét. **15**.

Leptothrix tettigonioides Heyl. = *Exotrocha haemacta* Snell., VAN EECKE Ber. Ned. Ent. Ver. **5** p. 121.

Limacodes nubeculosa = (*Thesea lutea* Heyl.), EECKE p. 165 T.c.

Lobobunaea, **sp. n.**, O'NEIL p. 158 Ann. Durb. Mus. **2**.

Ludia, **sp. n.** O'NEILL p. 165 Ann. Durb. Mus. **2**.

Lymantria ampla, early stages, SENIOR-WHITE Spolia zeylan. **11** p. 76. —*L. monacha*, melanism, SEYDEL p. 93 Bull. Soc. ent. Belgique **1**.—*L. dispar*, parthenogenesis, RATTRAY p. 166 Entom. **52**.—*L.*; transplantation of sex-glands experiments; KLATT pp. 39–45 S.B. Ges. naturf. Fr. Berlin **1919**.

Macrocneme xantholopha **sp. n.** Colombia p. 4, DOGNIN Hét. nouv. **17**.

Macrothylacia rubi, hibernation, OUDEMANS p. 166 Ber. Nederl. ent. Ver. **5**.

Maenas hyalina **sp. n.** Colombia p. 308, SEITZ, Fauna exot. Americana **6**.

Malachitis preangerensis Heyl. (as *Dasychira*) = *melanochlora* Hamps., EECKE p. 164 Ber. Nederl. ent. Ver. **5**

Marbla diplosticta pl. xxiv f. 76, *hemileuca* f. 75, p. 277, *nyctemerina* p. 278 pl. xxiii f. 55, **spp. n.** C. Africa, REBEL Ann. Hofmus. Wien **28** 1914.

Mesothen aurata **sp. n.** Colombia p. 1, DOGNIN Mém. Soc. ent. Belgique **22** 1913.

Miltochrista nigripuncta p. 269, *unilinea* p. 270, **spp. n.** Philippines, WILEMAN & SOUTH Entom. **52.**

Mimagyrta chocoensis Colombia **sp. n.** p. 87, KAYE Ann. nat. Hist. **4.**

Miresa sanguineomaculata and *nigriplaga*, synonymy, EECKE p. 165 Ber. Nederl. ent. Ver. **5.**

Napata levata **sp. n.** Peru p. 92, KAYE Ann. nat. Hist. **4.**

Nodozana fifina **sp. n.** Panama p. 3, DOGNIN Mém. Soc. ent. Belgique **22** 1913.

Nola tincta **sp. n.** Mindanao p. 270, WILEMAN & SOUTH Entom. **52.**

Olene, the larvae, *dorsipennata* **sp. n.** Ottawa, BARNES & MCDUNNOUGH p. 102 Canad. Ent. **51.**

Orgyia thyellina, female, ALBRECHT p. 9 Ent. Zeitschr. Frankf. **29** 1915.—*O. vetusta*, larval life, CHAPMAN p. 41–43 Ent. Rec. **31.**

Pericopis fanatica p. 3, *luctuosa* p. 4, *pagana* p. 5, P. ? *triangulata* p. 6, **spp. n.** Amer. mer. DOGNIN Hét. **15.**

Perophora penia **sp. n.** Colombia p. 6, DOGNIN Hét. **16.**

Pheia attenuata Panama, *simillima* Amazons, **spp. n.** p. 91, KAYE Ann. nat. Hist. **4.**

Phoenicoprocta variabilis **sp. n.** Bugaba p. 90, KAYE T.c.

Phragmatobia niepeltiana n.n. for *strandi* Niep., *wilemani* n.n. for *obscura* Wile., STRAND p. 416 Cat. Arct.

Phragmatoecia argillosa **sp. n.** Madagascar, LE CERF p. 161 Bull. Mus. Paris **1919.**

Pirga nmemosyne **sp. n.** C. Africa p. 278 pl. xxiii f. 62, REBEL Ann. Hofmus. Wien **28** 1914.

Pisara punctilinea **sp. n.** Philippines p. 270, WILEMAN & SOUTH Entom. **52.**

Pseudomelisa demiavis **sp. n.** W. Africa p. 88, KAYE Ann. nat. Hist. **4.**

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Salagena nigropuncta p. 29, *mirabilis* p. 31, **spp. n.** Africa, LE CERF Bull. Mus. Paris **1919.**

Saliunca vidua **sp. n.** C. Africa p. 290 pl. xxiii f. 61, REBEL Ann. Hofmus. Wien **28** 1914.

Sapelia tavetensis p. 276 pl. xxiv f. 73, REBEL T.c.

Schizura concinna, repugnatorial glands, HERRICK & DETWILER p. 44–48 Ann. ent. Soc. Amer. **12** fig.

Semimanatha **subg. n.** of *Acanthopsyche, for S. fumosa* **sp. n.**, JANSE p. 137 Ann. Natal Mus. **4.**

Spilosoma ignivagans **sp. n.** Yunnan p. 487, ROTHSCHILD Ann. nat. Hist. **3.**

Steneugoa inornata **sp. n.** Philippines p. 50, WILEMAN & SOUTH Entomol. **52.**

Stibolepis sabalina **sp. n.** Tanganyika p. 279 pl. xxiii f. 59, REBEL Ann. Hofmus. Wien **28** 1914.

Thyrgis lacryma **sp. n.** Cayenne p. 6, DOGNIN Hét. **15.**

Trichocossus arvensis Janse redescribed JANSE Ann. Natal Mus. **4.**

Trichophassus **gen. n.** p. 470 type *Epiolus giganteus*, LE CERF Bull. Mus. Paris **1919.**

Turuptiana sanguinipectus **sp. n.** Bogota, *nemophila* f.n. *pratincola* Bolivia, p. 313, SEITZ Fauna exot. Americana **6.**

Virbia satara **sp. n.** Bolivia p. 297, SEITZ T.c.

Xanthospilopteryx grandis var. *batesi* p. 281 pl. xxiv. f. 70, REBEL Ann. Hofmus. Wien **28** 1914.

Xanthyda anaxantha **sp. n.** Guiana p. 3, DOGNIN Hét. **17.**

Zygaena carniolica, forms, many names, pp. 62–82 pl. iv, ROCCI Atti Soc. ligust. **30.**—*Z. carniolica rueckbeili* Turkestan, *cocandica pamira* Pamir, subspp. n. p. 130, SHELJUZHKO N. Beitr. syst. Insk. **1.**—*Z. carniolica*, Revision of group, pp. 177–187, WAGNER Ent. Mitt. **8.**—*Z. stoechidis* f.n. *roseopicta* p. 173, *transalpina* f.n. *circumscripta* p. 175, TURATI Atti Soc. ital. **58.**

NOCTUIDAE.

Descriptions and figures of pupae, LJUNGDAHL pp. 97–119 & 216–238 Ent. Tidskr. **40.**

Abrostola microvalis **sp. n.** Texas p. 124 pl. xv f. 12, OTTOLENGUI J. N. York ent. Soc. **27.**

Acanthodica albiplena Colombia, *semilinea* Peru, p. 167, *coelebs* Colombia p. 168, **spp. n.,** PROUT Ann. nat. Hist. **3.**

Achaea cyanobathra p. 178, *jamesoni* p. 179, Africa, *ministra* New Guinea p. 180, *pentasema* New Caledonia, *dmoë*, Madagascar, p. 181, *cymatias* Cameroons p. 183, **spp. n.,** *indistincta* valid p. 184, PROUT T.c.

Acontia elima **sp. n.** Queensland p. 318, SWINHOE Ann. nat. Hist. **3.**

Acronycta polyporia **sp. n.** Mexico p. 79, DYAR Insec. inscit. **7.**

Agonista endochrysa **sp. n.** Borneo p. 169, PROUT Ann. nat. Hist. **3.**

Agrotis timbor, hahama, **spp. n.,** Mexico p. 74, DYAR Insec. inscit. **7.**—*A. graslini* var. n. *gouini,* OBERTHÜR p. 316 Bull. Soc. ent. France **1919.**—*A. multifida,* early stages, ASTFÄLLER Ent. Zeitschr. Frankf. **29** p. 7 1915.

Amathes miastigma **sp. n.** Mexico p. 78, DYAR Insec. inscit. **7.**

Anua subdiversa p. 173, *violisparsa* p. 175, **spp. n.** W. Africa, PROUT Ann. nat. Hist. **3.**

Attonda **gen. n.** p. 123 type *Capnodes trifasciata* Moore, *natha* **sp. n.** Cape York p. 124, SWINHOE Ann. nat. Hist. **4.**

Autographa diversisigna p. 121, *interalia* p. 122, *magnifica* p. 124, **spp. n.,** Amer. bor., *rectangula* var. n. *nargenta* p. 122, *celsa* var. n. *sierrae* p. 123, *alta* n.n. for *excelsa* p. 125, OTTOLENGUI J. New York ent. Soc. **27** figs. pl. xv.

Barasa suffida **sp. n.** Khasia hills p. 120, SWINHOE Ann. nat. Hist. **4.**

Blepharita amica ussuriensis subsp. n. p. 132, SHELJUZHKO N. Beitr. Syst. Insk. **1.**

Caradrina cubicularis, larva in flax, RUSSELL p. 200 Scott. Nat. **1919.**

Catocala maculata **sp. n.** China p. 151, fig., VINCENT Bull. Soc. ent. France **1919.**—*C. minuta,* early stages p. 196, *obscura* var. n. *obvia* p. 198, SCHWARZ Ent. News **30.**—*C. obscena* p. 335, *kusnezovi* p. 336, VINCENT Bull. Soc. ent. France **1919.**—*C. titania,* early stages p. 14, var. n. *distincta, minuta* varr. n. *eureka* and *obliterata,* pp. 16 and 17, SCHWARZ Ent. News **30.**—*C.,* larvae of *flebilis, relecta, lachrymosa, obscura,* ROWLEY p. 226 Canad. Ent. **51.**—*C. ulalume* and *carolina,* FRENCH p. 16 Canad. Ent. **51**; FRENCH p. 130 T.c.—*C. nupta,* ab., LONG p. 261 Entom. **52.**

Chamaeclea mapensa **sp. n.** Mexico p. 80, DYAR Insec. inscit. **7.**

Characoma perfecta p. 118, *araca* p. 119, **spp. n.** Khasia hills, SWINHOE Ann. nat. Hist. **4.**

Charaeas graminis, habits, FRYER p. 207 Ann. appl. Biol. **6.**

Cirphis cholica **sp. n.** Mexico p. 75, DYAR Insec. inscit. **7.**

Cobubatha nubidice **sp. n.** Mexico p. 81, DYAR Insec. inscit. **7.**

Cosmophila erosoides **sp. n.** Argentina p. 360, GIACOMELLI An. Mus. Buenos Aires **27** 1915.—*C.,* spp. distinguished by male structures pls. ix and x, *lyona* Sumatra p. 312, *dona* Australia, *milva* Gilolo, p. 313, **spp. n.,** SWINHOE Ann. nat. Hist. **3.**

Cropia mandaea p. 78, *impressionata* p. 79, **spp. n.** Mexico, DYAR Insec. inscit. **7.**

Cucullia encaena p. 76, *syggnomon, eccissica,* p. 77, Mexico, *edificans* Costa Rica p. 77, **spp. n.,** DYAR T.c.—*C. palliastria,* metamorphosis, PEAD P. Rhodesia Ass. **10** pp. 105–109, 1910.

Diomea padanga **sp. n.** Sumatra p. 124, SWINHOE Ann. nat. Hist. **4.**

Enmonodia villicosta, **sp. n.** Mindanao p. 171, PROUT Ann. nat. Hist. **3.**

Ephyrodes gorgoniopis **sp. n.** Guiana p. 5, DOGNIN Hét. **16.**

Epipsilia monochromatea, life history p. 61 pl. iv, HOOKER Ent. News **30.**

Ercheia amoena New Guinea p. 176, *latistria* Gilolo p. 178, **spp. n.,** *kebea borneensis* subsp. n. p. 176, PROUT Ann. nat. Hist. **3.**

Eriopyga nocanoca **sp. n.** Mexico p. 76, DYAR Insec. inscit. **7.**—*E. thermosema* **sp. n.** Colombia p. 3, DOGNIN Hét. **16.**

Eublemma irresoluta Mexico p. 80, *carterotata* Costa Rica p. 81, **spp. n.**, DYAR Insec. inscit. **7.**

Euclidia mi, abnormal ♂, SCHINDLER p. 116 Ent. Zeitschr. Frankf. **28** 1915.

Giaura multipunctata n.n. for *punctata* Sw., SWINHOE p. 119 Ann. nat. Hist. **4.**

Gyrtona yucca, synonymy, SWINHOE p. 121 Ann. nat. Hist. **4.**

Hadena pabulatricula, life-history, HOLWEDE p. 33 Ent. Zeitschr. Frankf. **29** 1915.

Hyblaea joiceyi **sp. n.** New Guinea, *puera vitiensis* subsp. n., PROUT p. 188 Ann. nat. Hist. **3.**

Hydroecia crinanensis, food-plant, BURROWS, pp. 12 & 33 Ent. Rec. **31.**— *H. crinanensis*, larva, BURROWS p. 177 Ent. Rec. **31.**

Hydroeciodes compressipuncta p. 162, *exagitans* p. 163, **spp. n.**, Mexico, DYAR Insec. inscit. **7.**

Hypospila andamana **sp. n.** Port Blair, SWINHOE p. 124 Ann. nat. Hist. **4.**

Iontha ida **sp. n.** Philippines p. 71, pl. i, BANKS Philippine J. Sci. **14.**

Lagoptera rubida velutina subsp. n., p. 172, *ochrobrunnea* Strand is distinct, *o. nicanora* subsp. n. New Guinea p. 173, PROUT Ann. nat. Hist. **3.**

Libisosa obiana **sp. n.** Obi p. 123, SWINHOE Ann. nat. Hist. **4.**

Lophoptera apirtha Sw. (as *Stictoptera*) = (*plumbeola* H.), *hampsoni* **sp. n.** India, p. 121, *cerea* Sw. synonymy p. 122, SWINHOE T.c.

Lycophotia federalis **sp. n.** Mexico p. 75, DYAR Insec. inscit. **7.**

Mamestra brassicae, metamorphosis, PICTET Bull. Soc. Lép. Genève **3** 1914 p. 17.

Matigramma crenulata **sp. n.** Argentina, DOGNIN p. 5 Hét. nouv. **16.**

Maurilia gilva **sp. n.** Cape York p. 317, SWINHOE Ann. nat. Hist. **3.**

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Mocis camptogramma **sp. n.** Colombia p. 5, DOGNIN Hét. **17.**

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Eriopygidia comprobata **sp. n.** Colombia p. 14, DOGNIN T.c.

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Fisera halurga, phricotypa, p. 390, *bradymorpha* p. 391, **spp. n.** Australia, TURNER P. Linn. Soc. N.S.W. **45.**

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Heterusia aperta p. 26, *reversa* p. 27, **spp. n.** Colombia, DOGNIN T.c.

Hydriomena nipteriodes p. 15, *albipulverata* p. 16, **spp. n.** Colombia, DOGNIN T.c.

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Nadagarodes ochrophara **sp. n.** Queensland p. 282, TURNER T.c.

Nipteria deformata p. 28, *nubetincta*, *monochroma*, *subcolorata*, p. 29, *solitaria* p. 30, **spp.** Colombia, DOGNIN Mém. Soc. ent. Belgique **22** 1913.

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Perigramma marcescens **sp. n.** Colombia p. 28, DOGNIN Mém. Soc. ent. Belgique **22** 1913.

Perizoma apicesignata p. 10, *rostrinotata*, *mollis*, p. 11, *serrilinearia*, *constellata*, p. 12, *brunneopicta*, *nigrostipata*, p. 13, *mixticolor* p. 14, **spp. n.** Colombia, DOGNIN T.c.

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Psaliodes lucida p. 18, *grandis* p. 19, *disrupta*, *bilineata*, p. 20, *tolimata*, *subocellata*, *repertita*, p. 21, **spp. n.** Colombia, DOGNIN Mém. Soc. ent. Belgique **22** 1913.

Psamathia ochriptaga **sp. n.** Colombia p. 51, DOGNIN T.c.

Pseudogenusa **gen. n.** near *Genusa*, *opalescens* **sp. n.** Centr. Africa pl. xxiv f. 72, REBEL p. 285 Ann. Hofmus. Wien **28** 1914.

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Scopula subpartita Assam p. 279, *segregata* W. China p. 280, *paetula* Colombia p. 281, *toxophora* Cameroons, p. 282, **spp. n.** PROUT Ann. nat. Hist. **4.**

Scotura aborta, aterrima, p. 6, *persimilis* p. 7, **spp. n.** Colombia, DOGNIN Mém. Soc. ent. Belgique **22** 1913.

Selidosema protatoxa **sp. n.** N. Zealand p. 350, MEYRICK Tr. N. Zeal. Inst. **51.**

Simopteryx sericea p. 40, *flavida* p. 41, Peru, *bicurvata* Guiana, *obliquilinea* Ecuador p. 42, **spp. n.**, *obliquilinea columbensis* subsp. n. p. 43, DOGNIN Mém. Soc. ent. Belgique **22** 1913.

Smicropus consepta **sp. n.** Colombia p. 6, DOGNIN T.c.

Stathmorrhopa hypsilopha p. 392, *hypoleuca* p. 393, **spp. n.** Australia, TURNER P. Linn. Soc. N.S.W. **44.**

Stibaroma triphasia **sp. n.** Australia p. 405, TURNER T.c.

Symmiges **gen. n.** p. 394 for *Chlenias galearia* Gn., TURNER T.c.

Syngria versilinea **sp. n.** Ecuador p. 52, DOGNIN Mém. Soc. ent. Belgique **22** 1913.

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Xenomigia cuneifera, sordida, **spp. n.** Colombia p. 7, DOGNIN Mém. Soc. ent. Belgique **22** 1913.

Xenopepla punctata **sp. n.** Colombia p. 8, DOGNIN T.c.

PYRALIDAE, THYRIDIDAE.

Notes on Guenées collection, JOANNIS pp. 18–22 and 24–32 Ann. Soc. ent. France **88.**

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Acropentias papuensis **sp. n.** p. 310, HAMPSON Ann. nat. Hist. **4.**

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Aglossa arcuatalis **sp. n.** Syria p. 320 pl. XXV f. 21, ZERNY Ann. Hofmus. Wien **28** 1914.—*A. nigripennis* **sp. n.** Apennines p. 185 fig., TURATI Atti Soc. ital. **58.**

Alpheias bipunctalis **sp. n.** Jamaica p. 312, HAMPSON Ann. nat. Hist. **4.**

Anadelosemia **gen. n.** p. 51 type *Nephopteryx senesciella* Schaus, *fifria, base,* **spp. n.** Guatemala, p. 52, DYAR Insec. inscit. **7.**

Ancylodes nervosella **sp. n.** Uralsk p. 306 pl. XXV f. 8, ZERNY Ann. Hofmus. Wien **28** 1914.

Ancylolomia castaneata Transvaal, *melanella, perfasciata,* p. 141, *prepiella, albicostalis,* p. 142, *lentifascialis, fulvitinctalis, melanothoracia,* p. 143 Africa, *agraphella* Assam, *chrysargyria* Nigeria, *croesus* E. Africa, p. 144, *dives* Madras, *ophiralis* p. 145, *atrifasciata, irrorata,* p. 146, *holochrea* p. 147, Africa, **spp. n.**, HAMPSON Ann. nat. Hist. **4.**

Ancylostomia euchroma **sp. n.** Brazil p. 53, DYAR Insec. inscit. **7.**

Anoristia (*Centrometopia*) *granulella* **sp. n.** Turkestan p. 311 pl. XXV f. 11, ZERNY Ann. Hofmus. Wien **28** 1914.

Aphycitopsis **gen. n.** *Phycitinae, isabella* **sp. n.** Costa Rica p. 45, DYAR Insect. inscit. **7.**

Argyria latifasciella Port Darwin, *mesozonalis* Peru, p. 445, *eromenalis* Sumbawa, *bicuspidalis* C. Africa, *quadricuspis* Rhodesia, p. 446, *obliquistrialis* Argentina, *albiceps, unipunctalis,* Transvaal p. 447, *araealis* Mashonaland, *albivenalis* Paraguay, *atrisparbalis* Mexico, *tumidicostalis,* p. 448, *sticticraspis, coniorta,* India, *argyropasta* Cape Colony, p. 449,

poliella, psammathis, bipunctalis, p. 450, Africa, *vittatalis* Brazil, *endochralis* Argentina, *leucomeralis* Sierra Leone, p. 451, *retractalis* Guiana, *undulatis* Bengal, p. 452, *conisphoralis* China, *molybdogramma* Queensland, *calamochroa*, p. 453, *duplicilinea* Sierra Leone, *leucopsumis* Assam, p. 454, *bostralis* Uganda p. 455, **spp. n.**, HAMPSON Ann. nat. Hist. **3.**

Auchmophora sufetuloides **sp. n.** W. Africa p. 310, HAMPSON Ann. nat. Hist. **4.**

Bema fritilla, convergens, **spp. n.** Guatemala p. 59, DYAR Insec. inscit. **7.**

Bradina erilitoides p. 108, *aulacodialis* p. 109, **spp. n.**, Formosa, STRAND Ent. Mitt. **8.**

Brihaspa tinctalis **sp. n.** Queensland p. 315, HAMPSON Ann. nat. Hist. **4.**

Cacozophera **gen. n.** *Phycitinae, venosa* **sp. n.** Guatemala p. 58, DYAR Insec. inscit. **7.**

Calamoschoena nigripunctalis p. 307, *stictalis* p. 308, **spp. n.** Africa, HAMPSON Ann. nat. Hist. **4.**

Campyloplesis **gen. n.** *Phycitinae, inveterella* **sp. n.** Guatemala p. 61, DYAR Insec. inscit. **7.**

Catancyla **gen. n.** near *Ancylolomia, brunnea* **sp. n.** W. Australia, HAMPSON p. 140 Ann. nat. Hist. **4.**

Cerocanthia subcaudata **sp. n.** Guatemala p. 42, DYAR Insec. inscit. **7.**

Charltona rufalis, endothermalis, Madras, p. 153, *interstitialis* p. 154, *actinialis, atrifascialis*, p. 305, *albimixtalis, albidalis, argyrastis*, p. 306, Africa, **spp. n.**, HAMPSON Ann. nat. Hist. **4.**

Chilo brevipalpellus **sp. n.** Jordan p. 303 pl. XXV f. 6, ZERNY Ann. Hofmus. Wien **28** 1914.—*C. albimarginalis* Peru p. 56, *diffusifascia* Uruguay, *pyrocaustalis* W. Africa, p. 57, *rufulalis* Burma, *submedianalis* Ceylon, *mesostrigalis, ascriptalis*, Africa p. 58, *gemininotalis* Cachar, *strigatellus* W. Australia, *argyrostola* Venezuela, *phlebitalis*, p. 59, *leptigrammalis, leucocraspis*, Argentina, *calamistis* Mexico, p. 60, *argentifascia*, W. Australia p. 61, HAMPSON Ann. nat. Hist. **4.**

Chilopsis **gen. n.** next *Chilo, squamata* sp. n. Peru, HAMPSON p. 56 T.c.

Cirrhocrista annulifera p. 323, *xanthographa, diploschalis*, D'Entrecasteaux islds. *convoluta* Gold Coast, p. 324, *bifurcalis* Formosa etc., *primulina* New Guinea, p. 325, *aurantialis* Amboyna p. 326, **spp. n.**, HAMPSON T.c.

Coenotalis **gen. n.** near *Gadira, distictalis* **sp. n.** Nigeria, HAMPSON p. 152 T.c

Coniesta **gen. n.** type *Chilo araealis* H., *undilinealis* p. 540, *rufifusalis* p. 541, **spp. n.** E. Africa, HAMPSON T.c.

Conocrambus **gen. n.**, *atrimictellus* New Guinea, *calamosus* Transvaal, p. 443, *obliqua* Brazil p. 444, **spp. n.**, HAMPSON Ann. Nat. Hist. **3.**

Conotalis **gen. n.** near *Talis* p. 150 type *Charltona aurantifascia* H., *nigrisquamalis* **sp. n.** S. Africa, HAMPSON Ann. nat. Hist. **4.**

Crambus mediofasciellus Armenia p. 297 pl. XXV f. 3,*b rioniellus* Istria p. p. 298 figs. 4 and 5, *leucaniellus* Akbès p. 299, *steppicolellus* Orenburg p. 300, *cupriacellus* Armenia p. 301, **spp. n.** *pertellus aurellus* and *conchellus pseudopauperellus* subsp. n. p. 301, *cratcrellus* and *cassentiniellus* ♂ genitalia figs p. 302, ZERNY Ann. Hofmus. Wien **28** 1914.—*C. spatulellus* **sp. n.** Apennines p. 183 figs., TURATI Atti. Soc. ital. **58.**—*C. mesoscia, diodonta* p. 279, *niveicostellus, undilineatus*, Africa, *albidorsatus* Singapore, p. 280, *cuprescens* Juan Fernandez, *cinereus* New Guinea, *melanerges* Queensland, *calamellus, diascia*, Paraguay, p. 282, *bidentellus* Mexico, *atristrigellus* Jamaica, *melanolepis* Peru, p. 283, *melaneurus* Punjab, *minimellus* Guiana, *dichotomellus* S. Africa, p. 284, *ellipticellus* Natal, *elongatus* Chile, *tripartitus* Natal, *chalcimerus* Basutoland, p. 285, *micralis* Cuba *argentimaculatis* Brazil, *reseda* (= *mignonette* Dy.), *argyriplagalis* Surinam p. 286, *tessellatus perdentellus* Africa, *apicenotatus*, p. 287, *distictellus* Formosa, *prodontellus*, p. 288, *diarhabdellus, microstrigatus*, p. 289, Africa, *chinostola* Alor islds., *agraphellus* Seychelles, *monostictus* Centr. Africa, *argentictus*, p. 290, *ruptifascia* Mexico, *aureorufus* Brazil, *brachiiferus* C. Africa, p. 291, *infradentatus* Transvaal p. 292, *ocyperas* Uganda p. 437, *chilianellus* Chile, *vittiterminellus, mesombrellus*, p. 438, *peralbellus, argenticilia*, Africa,

fulvinotellus Louisiade Arch., p. 439, *endoxantha* Transvaal, *leucorhabdon* Florissant, *mediofasciellus* Nairobi, p. 440, *atratellus* Brazil, *argyrostola* Natal, *neurellus* C. Africa, *digrammellus* Mexico, p. 441, *chionostola* Ceylon altered to *chionopepla* op. cit. **4** p. 307, *brunneisquamatus* C. Africa, *albiradialis* Brazil, p. 442, **spp. n.**, HAMPSON Ann. Nat. Hist. **3**.—*C. meristes* **sp. n.** N. Zealand p. 351, MEYRICK Tr. N. Zeal. Inst. **51**.—*C. alienellus* p. 126, *moënsis*, *ranenensis*, p. 127, *hemnesensis* abb. n. Norway, STRAND Nyt Mag. **56** 1919.

Cremnophila ? pyraustella **sp. n.** Thian-Schan p. 317, pl. xxv f. 18, ZERNY Ann. Hofmus. Wien **28** 1914.

Cuba **gen. n.** *Phycitinae*, *furculella* **sp. n.** Cuba, p. 50 DYAR Insec. inscit. **7**.

Culladia albimedialis Queensland, *irroralis* E. Africa, p. 276, *dentilinealis* Simla, *sinuimargo* Pretoria, *innotalis* China p. 277, **spp. n.**, HAMPSON Ann. nat. Hist. **3**.

Cybolomia fulvomixtalis **sp. n.** Margelan p. 328 pl. xxvi f. 36, ZERNY Ann. Hofmus. Wien **28** 1914.

Diatraea obliqualis Argentina, *cashmirensis* Kashmir, *ustalis* Cachar, p. 543, *flavalis* Ceylon, *endothermalis* Peru, *calamina* Punjab, p. 544, *diaperalis* Bhutan, *louisiadalis* St. Aignan, *lunilinealis* Ceylon, *ignefusalis* Nigeria, p. 545, *lentistrialis* Argentina, *albivenalis* Gambia, *metaphacalis* Transvaal, p. 546, *subterminalis* Uganda, *ochrileucalis* Queensland, *rufistrigalis* C. Africa, p. 547, **spp. n.**, HAMPSON Ann. nat. Hist. **3**; and in Vol. **4**, *flavilinealis*, *perpulverea* p. 53, *argyrolepia*, *mesoplagalis*, p. 54, *argentisparsalis*, *perfusalis*, *costifusalis*, p. 55, Africa, **spp. n.**

Dioryctria sysstratiotes Guatemala, *majorella* Mexico p. 43, *drucei* Mexico p. 44 **spp. n.**, DYAR Insec. inscit. **7**.—*D. abietella*, larval habits, SMART p. 21 Entom. **52**; T.c. ADKIN p. 41.

Diplotalis **gen. n.** p. 151 near *Charltona*, *metallescens* **sp. n.** Nigeria p. 152, HAMPSON Ann. nat. Hist. **4**.

Diptychophora natalensis Estcourt, *minimalis* Sierra Leone p. 444, *argenticilia* Jamaica p. 445, **spp. n.**, HAMPSON Ann. nat. Hist. **3**.

Discopalpia ragonoti **sp. n.** Guatemala p. 44, DYAR Insec. inscit. **7**.

Donacaula pulverea **sp. n.** Natal p. 323, HAMPSON Ann. nat. Hist. **4**.

Doratoperas fulvescens p. 61, *xanthotherma* p. 62, **spp. n.** Peru, HAMPSON T.c.

Drescomopsis **gen. n.** p. 61 *Phycitinae*, *subelisa* **sp. n.** Guatemala p. 62, DYAR Insec. inscit. **7**.

Dysodia acrotoma **sp. n.** Mexico p. 83, DYAR T.c.

Elasmopalpus puer **sp. n.** Cuba p. 53, DYAR T.c.

Elophila fulicalis, larval respiration, LLOYD p. 263 pl. xxv J. New York ent. Soc. **27**.

Endotricha anpingia **sp. n.** Formosa p. 55, STRAND Ent. Mitt. **8**.

Endotrichodes **gen. n.** p. 312 *Siginae* *margaritifera* **sp. n.** New Guinea p. 313, HAMPSON Ann. nat. Hist. **4**.

Entmemacornis **gen. n.** p. 57 *Phycitinae*, *proselytes* **sp. n.** Guatemala p. 58, DYAR Insec. inscit. **7**.

Ephestia kuehniella, life-history, WADSWORTH Ann. appl. Biol. **6** pp. 203–206.

Epischnia ? trifidella **sp. n.** Turkestan p. 310 pl. xxv f. 10, ZERNY Ann. Hofmus. Wien **28** 1914.

Epizonora and allies, ZERNY p. 322 Ann. Hofmus. Wien **28** 1914.

Erupa plumbealis *puncticilialis*, *digrammica*, p. 536, *schoenobina*, *unipunctalis*, *arenalis*, p. 537, *carnealis* p. 538, **spp. n.** Amer. mer., HAMPSON Ann. nat. Hist. **3**.

Eschata irrorata **sp. n.** Assam p. 61, HAMPSON Ann. nat. Hist. **4**.

Eucampyla oconequensis **sp. n.** Peru p. 60, DYAR Insec. inscit. **7**.

Eudorina semifascia, *diffusa* p. 455, *triangulifera*, *leucoselene*, New Guinea, *ocellata* Batchian, p. 456, *leucosticta* New Guinea p. 533, **spp. n.**, HAMPSON Ann. nat. Hist. **3**.

Eufernaldia micralis **sp. n.** Jamaica p. 278, HAMPSON T.c.

Eurythmia santiagella **sp. n.** Cuba p. 62, DYAR Insec. inscit. **7**.

Euzophera ticitoa, came, laura, p. 56, *gais, glabrella,* p. 57, Guatemala, *perangusta* Trinidad p. 57, **spp. n.**, DYAR T.c.

Evergestis heliacalis **sp. n.** Djarkent p. 326 pl. xxvi f. 26, ZERNY Ann. Hofmus. Wien **28** 1914.

Exodesis **gen. n.** p. 313 *Siginae, vaterfieldi* **sp. n.** Sudan p. 314, HAMPSON Ann. nat. Hist. **4.**

Fundella eucasis Venezuela, *argentina* Tucuman, **spp. n.** p. 40, DYAR Insec. inscit. **7.**

Galleriidae; taxonomy, JOANNIS p. 105 Bull. Soc. ent. France **1919.**

Herculia nannodes var. n. *formosibia* p. 60, STRAND Ent. Mitt. **8.**

Heterographis rufomixtella **sp. n.** Ferghana p. 307 pl. xxv f. 9, ZERNY Ann. Hofmus. Wien **28** 1914.

Homalopalpia paranensis **sp. n.** Brazil p. 49, DYAR Insec. inscit. **7.**

Homoeosoma siciliella **sp. n.** Sicily p. 305 pl. xxv f. 7, ZERNY Ann. Hofmus. Wien **28** 1914.—*H. cubella* **sp. n.** Cuba p. 62, DYAR Insec. inscit. **7.**

Hyalospila ptychis **sp. n.** Cuba p. 49, DYAR T.c.

Hypiesta **gen. n.** next *Erupa, argyrogramma,* p. 538, *flavirufalis* p. 539, **spp. n.** E. Africa, HAMPSON Ann. nat. Hist. **3.**

Hypsipyla robusta, life history, pp. 146–216, 13 pls., BEESON Ind. Forest Rec. **7.**

Hypsopygia costalis syriaca subsp. n. p. 321 pl. xxvi f. 22, ZERNY Ann. Hofmus. Wien **28** 1914.

Leucargyra xanthoceps **sp. n.** Peru p. 61, HAMPSON Ann. nat. Hist. **4.**

Loxostege elutalis **sp. n.** Chinese Turkestan p. 328 pl. xxvi f. 27, ZERNY Ann. Hofmus. Wien **28** 1914.

Loxostegopsis phaeopasta **sp. n.** Arizona p. 326, HAMPSON Ann. nat. Hist. **4.**

Macalla derogatella var. n. *formosibia* p. 50, *M.* (*Parasarama*) *marganta* var. n. *shisana* p. 51, STRAND Ent. Mitt. **8.**

Mastigophorus bilineata **sp. n.** Formosa p. 267, WILEMAN & SOUTH Entom. **52.**

Megarthria cervicalis **sp. n.** Cuba p. 42, DYAR Insec. inscit. **7.**

Melissoblaptes curvicostellus Uralsk p. 299 p. xxv f. 1, *murciellus* Spain p. 296 f. 2, **spp. n.**, ZERNY Ann. Hofmus. Wien **28** 1914.

Mescinia bacerella Cuba p. 59, *pandessa, imperfecta,* Guatemala p. 60, **spp. n.**, DYAR Insec. inscit. **7.**

Mesolia albimaculalis Nigeria p. 62, *presidialis, diaperalis,* Mexico p. 63, *jamaicensis* p. 64, **spp. n.**, HAMPSON Ann. nat. Hist. **4.**

Myelois quadripunctella pl. xxv f. 20, *aeneella,* **spp. n.**, Syria p. 379, ZERNY Ann. Hofmus. Wien **28** 1914.—*M. palpalis* **sp. n.** Guatemala p. 40, DYAR Insec. inscit. **7.**

Neargyria persimilis **sp. n.** D'Entrecasteaux islds. p. 275, HAMPSON Ann. nat. Hist. **3.**

Neerupa **gen. n.** *Crambinae, benepunctalis* pp. 278–279 **spp. n.** Colombia, HAMPSON T.c.

Neobanepa **gen. n.** p. 310 *Siginae, aglossodes* **sp. n.** Peru p. 311, HAMPSON Ann. nat. Hist. **4.**

Neoschoenobia decoloralis **sp. n.** N. China p. 309, HAMPSON T.c.

Nephopteryx? ferruginella **sp. n.** Ural p. 315 pl. xxv f. 17, ZERNY Ann. Hofmus. Wien **28** 1914.—*N. ochridorsalis* **sp. n.** Formosa p. 267, WILEMAN & SOUTH Entom. **52.**—*N. bisra* **sp. n.** Mexico p. 51, DYAR Insec. inscit. **7.**

Niphopyralis chionesis Queensland, *discipunctalis* Louisiade islds., **spp. n.** p. 307, HAMPSON Ann. nat. Hist. **4.**

Noctuelia vespertalis abb. n. *sordidalis* and *gilvalis* pl. xxvi f. 42, ZERNY Ann. Hofmus. Wien **28** 1914.

Nymphula definitalis p. 61, *uxorialis* p. 102, **spp. n.** Formosa, STRAND Ent. Mitt. **8.**

Nymphulodes **gen. n.** p. 311 type *Nymphula franciscalis* Schaus, HAMPSON Ann. nat. Hist. **4.**

Obtusipalpis brunneata, fusipartalis, p. 314, *albidalis* p. 315, **spp. n.** W. Africa, HAMPSON T.c.

Oligostigma cataclystalis, hapilastale, p. 105, *aulacodealis* p. 106, **spp. n.** Formosa, STRAND Ent. Mitt. **8.**

Olyca nephelepasa Mexico, *asthenosoma* French Guiana, **spp. n.** p. 55, Dyar Insec. inscit. **7.**

Ommatopteryx discopis Transvaal, *corsicalis* Vizzavona, p. 534, *micralis, brunnealis,* Philippines, *delicatalis* C. Africa, p. 535, **spp. n.,** Hampson Ann. nat. Hist. **3.**

Orthaga? edetalis **sp. n.** Formosa p. 52, Strand Ent. Mitt. **8.**

Ozamia clarefacta **sp. n.** Mexico p. 55, Dyar Insec. inscit. **7.**

Parancyla **gen. n.** near *Surattha, argyrothysana* **sp. n.** Centr. Africa p. 67, Hampson Ann. nat. Hist. **4.**

Paratraea **gen. n.** near *Diatraea, plumbipicta* Nigeria p. 542, *griseifasciata* Transvaal p. 543, **spp. n.,** Hampson Ann. nat. Hist. **3.**

Parerupa **gen. n.** near *Erupa, diagonalis* **sp. n.** E. Africa, Hampson T.c. p. 539.

Patissa fulvipunctalis Uganda p. 315, *stenopteralis* Queensland, *rubrilinealis, atrilinealis, rufitinctalis, geminalis,* p. 316, *monostidzalis, fulvicepsalis* Africa, *ochreipalpalis* Comoro islds., *atricostalis* Queensland, *ochroalis* Surinam, p. 317, *fractilinealis* E. Africa p. 318, **spp. n.,** Hampson Ann. nat. Hist. **4.**

Patissodes **gen. n.** *Siginae, fulvinotata* **sp. n.** Singapore, Hampson p. 309 T.c.

Phlyctaenodes, composition, Zerny p. 327 Ann. Hofmus. Wien **28** 1914.

Phycita griseofusa p. 267, *taiwanella* p. 268, **spp. n.** Formosa, Wileman & South Entom. **52.**

Physematia concordalis var. n. *defloralis* Formosa p. 132, Strand Ent. Mitt. **8.**

Pinipestis horneana **sp. n.** Cuba p. 43, Dyar Insec. inscit. **7.**

Pionea russispersalis Tian-Schan pl. xxvi f. 37, *affinialis* Sajan mts. f. 38, **spp. n.** p. 332, Zerny Ann. Hofmus. Wien **28** 1914.—*P. costiplaga* **sp. n.** Colombia p. 54, Dognin Mém. Soc. ent. Belgique **22** 1913.

Platytesis **gen. n.** p. 308 *Siginae, semifurva* **sp. n.** Siam p. 309, Hampson Ann. nat. Hist. **4.**

Plodia dolorosa **sp. n.** Guatemala p. 63, Dyar Insec. inscit. **7.**

Pococera nigrilunalis **sp. n.** Guiana p. 53, Dognin Mém. Soc. ent. Belgique **22** 1913.

Poujadia chejelis **sp. n.** Guatemala p. 63, Dyar Insec. inscit. **7.**

Prionopteryx sinensis Chang-Yang, *brevivittalis* Transvaal, p. 64, *mesozonalis* Argentina, *albirufalis* Sudan, p. 65, *rubricalis, microdontalis* W. Africa, p. 66, **spp. n.,** Hampson Ann. nat. Hist. **4.**

Prionotalis **gen. n.** near *Charltona* p. 152, *peracutella* **sp. n.** Africa p. 153, Hampson T.c.

Prismopoda xanthozona, fratella French Guiana, *apocerastes* Costa Rica, **spp. n.** p. 45, Dyar Insec. inscit. **7.**

Procandiope **gen. n.** p. 50 *Phycitinae mamella* **sp. n.** Panama p. 51, Dyar T.c.

Prosmixis (to replace *Talis*) *radialis, discilunalis,* Australia p. 147, *plumbealis, albimaculalis, flavipars,* p. 148, *albofascialis, molybdella, albiceps,* p. 149, *argentescens* S. Africa, *albescens* Nairobi, p. 150, **spp. n.,** Hampson Ann. nat. Hist. **4.**

Pseudodivona cispha p. 53, *santamaria* Central Africa, *carabayella* Peru, p. 54, **spp. n.,** Dyar Insec. inscit. **7.**

Ptochostola metascotiella **sp. n.** Cape Colony p. 276, Hampson Ann. nat. Hist. **3.**

Pyralis narynensis **sp. n.** Chinese Turkestan p. 321 pl. xxvi f. 25, Zerny Ann. Hofmus. Wien **28** 1914.—*P. anpingialis* p. 56, *pupalis* p. 57, **spp. n.,** Formosa, Strand Ent. Mitt. **8.**

Pyrausta funeralis **sp. n.** Ferghana p. 333 pl. xxvi f. 39, *aerealis* subspp. n. *cinnamonalis* and *glaucalis* p. 334, *austriacalis* subspp. n. *altaica, juldusalis* and *plumbalis* p. 335, Zerny Ann. Hofmus. Wien **28** 1914.—*P. ainsliei* **sp. n.** U.S. p. 175, *nubilalis* genitalia, larva and pupa p. 173, pls., Heinrich J. Agric. Res. **18.**—*P. nubilalis* and *penitalis,* pupae, figs., Mosher p. 386 J. econ. Ent. **12.**—*P. nubilalis,* parasites, Vuillet p. 308 Bull. Soc. ent. France **1919.**

Rampylla **gen. n.** *Phycitinae, orio* **sp. n.** Mexico p. 84, Dyar Insec. inscit. **7.**

Relmis yddiopsis **sp. n.** Cuba p. 58, DYAR T.c.

Rhodoneura scardialis **sp. n.** Tanganyika p. 280 pl. xxiii f. 66, REBEL Ann. Hofmus. Wien **28** 1914.

Rhodophaea getuliella **sp. n.** Sicily p. 318 pl. xxv f. 19, ZERNY Ann. Hofmus. Wien **28** 1914.—*R. extrincica* **sp. n.** Cuba p. 41, DYAR Insec. inscit. **7.**

Salebria rosella pl. xxv f. 14, *lactella* f. 15, p. 312, Chinese Turkestan, *obliquifasciella* Djarkent f. 16, *S. ? kuschkella* Afghanistan f. 12, p. 313, *atritorella* f. 13 p. 314 Syr-Darja, **spp. n.**, ZERNY Ann. Hofmus. Wien **28** 1914.

Schoenerupa **gen. n.** *Siginae, thermantis* **sp. n.** Ecuador, HAMPSON p. 312 Ann. nat. Hist. **4.**

Schoenobius pyraustalis Argentina, *rufalis* E. Africa, p. 320, *ignitalis, attenuata,* S. Africa, *micralis* China, *semifuscalis* Argentina, p. 321, *pulverealis* Paraguay, *fulvitinctalis* Philippines, *phaeopastalis* Transvaal p. 322, *ochritinctalis* Sierra Leone p. 323, **spp. n.**, HAMPSON T.c.

Scoparia; figures pl. xxvi, ZERNY pp. 324–326 Ann. Hofmus. Wien **28** 1914.—*S. promiscua* **sp. n.** Formosa p. 268, WILEMAN & SOUTH Entom. **52.**—*S. illota* **sp. n.** New Zealand p. 224, PHILPOTT Tr. N. Zeal. Inst. **51.**

Stemmatophora oranalis **sp. n.** Algeria p. 322 pl. xxvi figs. 23 and 24, ZERNY Ann. Hofmus. Wien **28** 1914.

Stenia spodinopa form n. *spodinopella* p. 130, STRAND Ent. Mitt. **8.**

Stenocalama **gen. n.** *Siginae, ochrotis* **sp. n.** Uganda, HAMPSON p. 308 Ann. nat. Hist. **4.**

Stericta shisalis **sp. n.** Formosa p. 53, *yamatonis* nom. n. for *olivalis* Wileman p. 54, STRAND Ent. Mitt. **8.**

Stiphrometasia **gen. n.** for *Botys monialis* Ersch., ZERNY p. 331 Ann. Hofmus. Wien **28** 1914.

Strephomescinia **gen. n.** *Phycitinae, schausella* **sp. n.** Cuba p. 60, DYAR Insec. inscit. **7**

Styphlolepsis leucosticta W. Australia **sp. n.** p. 318, HAMPSON Ann. nat. Hist. **4.**

Surattha africalis p. 67, *soudanensis,* Sudan, *selenalis* Abyssinia, p. 68, *rubrifusalis, phaeomesa,* E. Africa p. 137, *diffusilinea* N.S. Wales, *albicostalis* Madras, p. 138, *endoleuca* Palestine, *arenalis* Punjab, p. 139, *ochrifasciata* E. Africa p. 140, **spp. n.**, HAMPSON T.c.

Sylepta illustralis, albifurcalis Colombia, **spp. n.** p. 53, DOGNIN Mém. Soc. ent. Belgique **22** 1913.

Symphonia secunda **sp. n.** Formosa p. 104, STRAND Ent. Mitt. **8.**

Tanaphysa [should be *Tanaophysa*] *adornatalis,* natural history, LUEDERWALDT p. 461 Rev. Mus. Paulista **11** pl.

Tatobotys depalpalis **sp. n.** Formosa p. 130, STRAND Ent. Mitt. **8.**

Tegostoma ruptilineale Armenia p. 336 pl. xxvi f. 40, *quadridentale* Ferghana p. 337 f. 41, **spp. n.** ZERNY Ann. Hofmus. Wien **28** 1914.

Thaumatopsis idion **sp. n.** Mexico p. 85, DYAR Insec. inscit. **7.**

Titanio angustipennis pl. xxvi f. 34, *inconspicualis* f. 35, **spp. n.** Tian-Schan p. 330, ZERNY Ann. Hofmus. Wien **28** 1914.

Tlascala infinitella **sp. n.** Mexico p. 52, DYAR Insec. inscit. **7.**

Topeutis = (*Scirpophaga*) *rhodoproctalis* Singapore, *flavidorsalis* Bhutan, *brunnealis* Burma, *termipunctalis* C. Africa, p. 319, *irrorata* Brazil p. 320, **spp. n.**, HAMPSON Ann. Nat. Hist. **4.**

Triphassa proboscidalis **sp. n.** Formosa p. 58, STRAND Ent. Mitt. **8.**

Vitula macropasa **sp. n.** Guatemala p. 61, DYAR Insec. inscit. **7.**

Zamagiria masculinus, deia, p. 46, *striella, pogerythrus,* Guatemala, *ipsetona* Costa Rica, p. 47, *hospitabilis* Cuba p. 48, **spp. n.**, DYAR T.c.

PTEROPHORIDAE.

Platyptilia pica, in Scotland, DURRANT p. vi P. ent. Soc. London **1919.**

TORTRICIDAE.

Notes on Guenée's species, made from examination of his collection; JOANNIS pp. 3–18 Ann. Soc. ent. France **88.**

Function of anal comb, FROST p. 446 figs. J. econ. Ent. **12.**

Acalla reticulata, TURNER pp. 158–164 Ent. Rec. **31.**

Argyroploce consanguinana, life-history, SANDERS & DUSTAN pp. 37–39 Bull. Dep. Agric. Canada **16.**

Cacoecia rosana, life-history, SANDERS & DUSTAN pp. 30–33 Bull. Dep. Agric. Canada **16.**

Carpocapsa pomonella, control, pp. 17–51 pls. i–ii, FELT New York State Mus. Bull. **198** 1918.

Eulia pinaturbana, life-history, HARTZELL pp. 233–237 J. econ. Ent. **12.**

Grapholitha spp., life-histories of, in Nova Scotia, SANDERS & DUSTAN Bull. Dep. Agric. Canada **17** 29 pp.

Homona coffearia, JARDINE p. 191 Spolia zeylan. **11.**

Pammene lobarczewskii zelleri subsp. n. habits, SCHULZE p. 376 S.B. Ges. naturf. Fr. Berlin **1918.**

Peronea maccana, lipsiana, rufana, schalleriana, early stages, SHELDON pp. 252–255 271–274 Entom. **52.**

Plethreutes cyanana genitalia fig. 1, *approximana* **sp. n.** New York, genitalia fig. 2, pp. 65, 66, pl. i, HEINRICH Insec. inscit. **7.**

Tmetocera ocellana, life-history, SANDERS & DUSTAN Bull. Dep. Agric. Canada **16** pp. 25–29.

Tortricodes vide *Noctuidae.*

Tortrix inusitata **sp. n.** New Zealand p. 225, PHILPOTT Tr. N. Zeal. Inst. **51.**—*T. antichroa* **sp. n.** N. Zealand p. 351, MEYRICK Tr. N. Zeal. Inst. **51.**

TINEIDAE (incl. MICROPTERYGIDAE, PROTOTHEORIDAE).

A jumping cocoon from S. Africa [vide etiam *Scyrotis*], VANHÖFFEN pp. 376–380 S.B. Ges. naturf. Fr. Berlin **1916.**

Micropterygidae ; morphology and texonomy of, TILLYARD P. Linn. Soc. N.S.W. **44** pp. 95–136 pl. iii.

Wing-coupling in Micropterygidae, TILLYARD p. 168 Ent. News **30.**

The use of the term larva, ED. p. 265 Ent. News **30.**

Acompsia vinolenta **sp. n.** Bombay p. 235, MEYRICK Exot. Microlep. **2.**

Acrocercops angelica Seychelles p. 230, *phaeomorpha, helicopa, leucophaea*, p. 231, *polyclasta* p. 232, **spp. n.** India, MEYRICK Exot. Micr. **2.**

Acrolepia marmaropis, elaphrodes, p. 226, *jaspidata, poliopis, bythodes*, p. 227, *syrphacopis* p. 228, **spp. n.**, Amer. mer., MEYRICK T.c.

Acrolophus anathyrsa, perissarcha, Guiana p. 278, *acanthogona* Texas, *exaphrista* Florida, *opathista*, p. 279, *manticodes, thaminodes*, Amer. mer., *carphologa* Iowa, p. 280, *leucallactis* Arizona p. 281, **spp. n.**, MEYRICK T.c.

Agoraula **gen. n.** *Tineidae, aspera* **sp. n.** Burma, MEYRICK p. 242 T.c.

Alloclita delozona **sp. n.** Bombay p. 238, MEYRICK T.c.

Amaurogramma **gen. n.** p. 261 near *Chrysopeleia, extensa* **sp. n.** California p. 262, BRAUN Ent. News **30.**

Anacampsis, includes *Compsolechia* and *Agriastis*, BUSCK p. 96 Pr. ent. Soc. Washington **21.**

Anomoses representative of a new family *Anomosetidae*, TILLYARD p. 649 P. Linn. Soc. N.S.W. **44.**

Anypoptus **gen. n.** *Heliodinidae* for *Sphecia tricolor* Rothsch., DURRANT p. 120 Nov. zool. **26.**

Apothetodes **gen. n.** near *Limnoecia, dialectica* **sp. n.** Bombay, MEYRICK p. 233 Exot. Microlep. **2.**

Archyala halosparta **sp. n.** New Zealand p. 354, MEYRICK Tr. N. Zeal. Inst. **51.**

Argyresthia nymphocoma **sp. n.** Ontario p. 234, MEYRICK Exot. Microlep. **2.**

Aristotelia aletris **sp. n.** Sicily p. 10, WALSINGHAM Ent. Rec. **31.**—*A. fragariae* **sp. n.** Brit. Columbia p. 52, BUSCK P. ent. Soc. Washington **21.**

Asyndetaula **gen. n.** p. 261 near *Mallobathra, vagula* **sp. n.** Assam p. 262, MEYRICK Exot. Micr. **2.**

Atasthalistis hieropla **sp. n.** Fiji p. 235, MEYRICK T.c.

Atychia flavescens sp. n. Apennines p. 187, TURATI Atti Soc. ital. **58.**

Bathraula **gen. n.** p. 237 type *simulaella* Walk., MEYRICK Exot. Microlep. **2.**

Bathroxena **nom. n.** for *Pelates* Dietz, MEYRICK p. 243 T.c.

Borkhausenia subarctica **sp. n.** Norway p. 124, STRAND Nyt Mag. **56.**—*B. ancogramma* **sp. n.** N. Zealand p. 352, MEYRICK Tr. N. Zeal. Inst. **51.**

Bythocrates **gen. n.** near *Scardia*, *drosocycla* **sp. n.** Brit. Guiana, p. 268, MEYRICK Exot. Micr. **2.**

Bucculatrix oncota India, *acrogramma* Queensland, *locuples*, p. 287, *cuneigera*, *copeuta*, p. 288, Ontario, **spp. n.**, MEYRICK T.c.—*B. althacae* **sp. n.** California p. 109, BUSCK Pr. ent. Soc. Washington **21.**

Cerostoma hydraea **sp. n.** Peru p. 228, MEYRICK Exot. Micr. **2.**—*C.*, variation, SICH pp. 15–21 P.S. London ent. Soc. **1918–19.**

Cibdeloses **gen. n.** *Hemerophilidae* p. 121, *dolopis* **sp. n.** Assam p. 122, DURRANT Nov. zool. **26.**

Coleophora laricella, FERNALD p. 264 Canad. Ent. **51.**—*C. apicella* p. 109, *polemoniella* p. 127, *ericoides* p. 128, *amaranthella* p. 129, *granifera* p. 130, **spp. n.** U.S., *viburniella* Cl. p. 110, *cretaticostella* Cl. p. 111, BRAUN Ent. News **30.**

Cosmopteryx chrysocrates p. 232, *dulcivora* p. 233, **spp. n.** Fiji, MEYRICK Exot. Microlep. **2.**—*C. hermodora* Manitoba, *magophila* Carolina, *isoteles* Australia, p. 282, *ancalodes*, *calypso*, Assam p. 283, *plesiasta* India p. 284, **spp. n.**, MEYRICK T.c.—*C. opulenta* **sp. n.** California p. 260, BRAUN Ent. News **30.**

Cranaodes **gen. n.** p. 238 near *Scardia*, *stereopa* **sp. n.** Colombia p. 239, MEYRICK Exot. Microlep. **2.**

Cryptophaga rubescens, pupa, p. xiv pl. A, ELTRINGHAM P. ent. Soc. London **1919.**

Ctenocompa phthonera Assam, *capnoscia* Ceylon, p. 263, *aphanodes*, *adversa*, *farinosa*, *micropsycha*, India p. 264, *antibola*, *hexaspila*, Ceylon p. 265, **spp. n.**, MEYRICK Exot. Micr. **2.**

Cyanauges **gen. n.** for part of *Incurvaria* type *cyanella* Busck, BRAUN p. 24 Ohio J. Sci. **20.**

Cyathaula inophora **sp. n.** New Guinea p. 254, MEYRICK Exot. Microlep. **2.**

Dasmophora **gen. n.** near *Scardia*, *xerospila* **sp. n.** Guiana, MEYRICK p. 268 T.c.

Demobrotis ocymorpha & *hemiphara* to *Oxylychna*, *D. incincta* p. 252 India, *isoploca* Port Darwin, *alludens*, *lamprodeta*, p. 253, *petrologa*, *alvearis*, p. 254, Ceylon, **spp. n.**, MEYRICK p. 249 T.c.

Depressaria, ecological relations, TRAVER Psyche **26** pp. 73–80.

Diataga compsacma **sp. n.** Bartica p. 270, MEYRICK Exot. Microlep. **2.**

Dichomeris leucothicta **sp. n.** Bombay p. 235, MEYRICK T.c.

Diplodoma peregrina **sp. n.** Assam p. 262, MEYRICK T.c.

Dolophrosyne **gen. n.** *Heliodinidae* p. 120, *balteata* **sp. n.** Queensland p. 121, DURRANT Nov. zool. **26.**

Drymalastis clausa **sp. n.** Ceylon p. 242, MEYRICK Exot. Microlep. **2.**

Dysoptus tantalota **sp. n.** Brit. Guiana p. 267, MEYRICK T.c.

Elachista ranenensis **sp. n.** ? Norway p. 123, STRAND Nyt Mag. **56** 1919.

Ephedroxena **gen. n.** near *Tiquadra*, *incisoria* **sp. n.** Brit. Guiana, p. 277, MEYRICK Exot. Micr. **2.**

Erecthias externella, *monastra* is the female of, MEYRICK p. 353 Tr. N. Zealand Inst. **51.**

Euclemensia bassettella, economy, HOLLINGER & PARKS pp. 91–100 pl. v Ent. News **30.**

Eucrotala tetracola **sp. n.** Bombay p. 257, MEYRICK Exot. Microlep. **2.**

Eumasia crypsiphila Ceylon, *exoria* Bengal, **spp. n.**, p. 261, MEYRICK T.c.

Exanthica referred to *Tineidae* near *Pseudurgis*, MEYRICK p. 261 Exot. Micr. **2.**

Exoncotis **gen. n.** near *Scardia*, *increpans* **sp. n.** Guiana, MEYRICK p. 269 T.c.

Gelechia hibiscella, early stages, WEISS & DICKERSON pp. 53–56 J. New York ent. Soc. **27.**

Hapalothyma **gen. n.** near *Bucculatrix*, *xanthocorda* **sp. n.**, MEYRICK p. 288 Exot. Micr. **2.**

Hapsifera ignobilis **sp. n.** Nairobi p. 259, MEYRICK T.c.

Harmotona **gen. n.** *Tineidae, diplochorda* **sp. n.** Coorg, MEYRICK p. 255 T.c.

Helice Ch. = (*Theison* Ch.), p. 261–263 figs., BRAUN Canad. Ent. **51.**

Hepialus vide Bombyces p. 183.

Homosetia ancyropis, anaphrictis, tephropis, p. 251, *scandalitis, cosmopa,* Guiana, *iambica* Colombia, p. 252, **spp. n.,** MEYRICK Exot. Microlep. **2.**

Hybroma crocorrhoa p. 240, *anticosma, pegaea, zacharis,* p. 241, **spp. n.,** Amer. mer., MEYRICK T.c.

Hypsilophus vittella ab. n. *fissella* p. **16,** *radiatella* ab. n. *aspersa* p. 17, SICH P.S. London ent. Soc. **1918–19.**

Irenicodes **gen. n.** *Diplosaridae, eurychora* **sp. n.** New Zealand, MEYRICK p. 352 Tr. N. Zeal. Inst. **51.**

Ithome, characters, BRAUN p. 262 Ent. News **30.**

Lampronia symmeles **sp. n.** Colombia p. 281, MEYRICK Exot. Micr. **2.**

Latypica rhicnopa Bombay, *constrata, retiaria,* Ceylon, **spp. n.,** MEYRICK p. 258 T.c.

Lecithocera acolasta, praeses, **spp. n.,** India p. 236, MEYRICK T.c.

Leptochersa **gen. n.** near *Demobrotis, diarthra* **sp. n.** Bartica, MEYRICK p. 272 T.c.

Limnoecia tyriarcha **sp. n.** Bombay p. 234, MEYRICK T.c.—*L. eristica* **sp. n.** Queensland p. 286, MEYRICK Exot. Microlep. **2.**

Lithocolletis norvegicella **sp. n.** Norway p. 121 STRAND Nyt Mag. **56.**—*L. pentadesma* **sp. n.** Java p. 230, MEYRICK Exot. Micr. **2.**—*L. fragilella,* life-history, CROSBY & LEONARD J. econ. Ent. **12** pp. 389–392 figs.

Machaeropteris plinthotripta **sp. n.** Madras p. 257, MEYRICK Exot. Micr. **2.**

Melasina nota p. 265, *subacta, phaeogenes, deposita,* p. 266, *brachiata, coagulata,* p. 267, **spp. n.,** India, MEYRICK T.c.

Metatheora **gen. n.** *Prototheoridae, parachlora* **sp. n.** Natal, MEYRICK p. 229 T.c.

Micropteryx corcyrella Corfu, *erctella, uxoria,* Sicily, **spp. n.,** p. 11, WALSINGHAM Ent. Rec. **31.**

†*Micropteryx pervetus* **sp. n.** burmese amber p. 193, COCKERELL Entom. **52.**

Monopis halospila Colorado, *avara* Bombay, p. 239, *pseudagyrta* Assam p. 240, **spp. n.,** MEYRICK Exot. Micr. **2.**

Myrmecozela corymbota Peru p. 269, *respersa* Florida p. 270, **spp. n.,** MEYRICK T.c.

Mythoplastis **gen. n.** near *Tiquadra, exanthes* **sp. n.** Guiana, p. 277, MEYRICK T.c.

Narycia scelerata India, *plana* Congo, p. 262, *obserata* Ceylon p. 263, **spp. n.,** MEYRICK T.c.

Neomeristis **gen. n.** p. 262, type *abscensella* Walk., MEYRICK T.c.

Nepticula lucida **sp. n.** New Zealand p. 225, PHILPOTT Tr. N. Zeal. Inst. **51.**—*N. perissopa* **sp. n.** New Zealand p. 354, MEYRICK Tr. N. Zeal. Inst. **51.**

Oenoe synchorda **sp. n.** Brit. Guiana p. 249, MEYRICK Exot. Micr. **2.**

Opogona calculata **sp. n.** Queensland p. 287, *micranthes* male p. 286, MEYRICK T.c.

Opsodoca **gen. n.** p. 270 near *Homotinea, metrodoxa, amentata,* **spp. n.,** Brit. Guiana p. 271, MEYRICK T.c.

Orthenches glypharcha **sp. n.** New Zealand p. 353, MEYRICK Tr. N. Zeal. Inst. **51.**

Otochares **gen. n.** near *Choroploca, gypsopa,* p. 244, *peronacma* p. 245, **spp. n.** Guiana, MEYRICK Exot. Microlep. **2.**

Otonoma leucochlaena **sp. n.** Queensland p. 285, MEYRICK T.c.

Oxylychna clinocosma p. 249, *leucosticha, cosmozona,* Ceylon, *chilota* Coorg, p. 250, **spp. n.,** MEYRICK T.c.

Pancalia leuwenhoekella, attitude, MEYRICK p. 160 Ent. Mag. **55.**

Parameristis **gen. n.** p. 256 near *Machaeropteris, eremaea* **sp. n.** Ceylon p. 257, MEYRICK Exot. Microlep. **2.**

Paraxenistis **gen. n.** near *Plutella, macrostoma, sphenospila,* **spp. n.** Coimbatore, MEYRICK p. 225 T.c.

Pectinophora gossypiella, natural history, GOUGH p. 279 etc. pl. xviii Bull. ent. Res. **9.**

Periacma plumbea **sp. n.** Kumaon p. 238, MEYRICK Exot. Microlep. **2.**

Perimede falcata **sp. n.** U.S. p. 263, BRAUN Ent. News **30.**

Periploca **gen. n.** Cosmopterygidae, *purpuriella* **sp. n.** California, BRAUN p. 261 T.c.

Phthorimaea axenopis n.n. for *Gnorimoschema artemisiella* Kearf., MEYRICK p. 234 Exot. Micr. **2.**

Placoptila artionoma **sp. n.** New Guinea p. 284, MEYRICK Exot. Micr. **2.**

Platyedra and Pectinophora, BUSCK p. 94 Pr. ent. Soc. Washington **21.**

Prays endocarpa **sp. n.** Java p. 234, MEYRICK Exot. Micr. **2.**

Promalactis ruficolor **sp. n.** Madras p. 237, MEYRICK Exot. Micr. **2.**

Prosplocamis **gen. n.** near *Pachypsalis* type *Melasina apracta* M., MEYRICK p. 256 T.c.

Prototheora, amended characters, MEYRICK p. 229 T.c.—*P.*, wing-nervuration p. 647 fig., relation with *Anomoses*, TILLYARD P. Linn. Soc. N.S.W. **44.**

Poacaphora metallifera, BRAUN p. 264 Ent. News **30.**

Psephocrita **gen. n.** near *Tiquadra*, *melanodoxa* **sp. n.** Guiana, MEYRICK p. 255 Exot. Microlep. **2.**

Schiffermuelleria rostrigera **sp. n.** Ontario p. 237, MEYRICK T.c.

Sciomystis **gen. n.** *Tineidae, amynias* **sp. n.** India, MEYRICK p. 243 T.c.

Scleropasta **gen. n.** near *Monopis* type *liberiella* Z., MEYRICK p. 239 T.c.

Scyrotis athleta, jumping cocoon, VANHÖFFEN p. 509 S.B. Ges. naturf, Fr. Berlin **1917.**

Sitotroga cerealella, at Kew, FRYER p. 207 Ann. appl. Biol. **6.**

Stagmatophora autotoma **sp. n.** Sydney p. 284, MEYRICK Exot. Microlep. **2.**

Stemagoris cuniculata **sp. n.** Coorg p. 242, MEYRICK T.c.

Stenoma catenifer, habits, larva, BUSCK p. 125 Pr. ent. Soc. Washington **21.**

Stomopteryx and *Aproaerema*, status, BUSCK p. 96 Pr. ent. Soc. Washington **21.**

Stryphnodes **gen. n.** near *Hapsifera*, *styracopa* **sp. n.** Ceylon, p. 259, MEYRICK Exot. Micr. **2.**

Syntomactis valida **sp. n.** Queensland p. 286, MEYRICK T.c.

Syrmologa **gen. n.** p. 243 *Tineidae*, *leucoclistra* **sp. n.** Colombia p. 244, MEYRICK T.c.

Syrmologa thriophora, chersopa, spermatias, **spp. n.**, Guiana p. 273, MEYRICK T.c.

Talaeporia scoriota var. = (*globulosa* M.), MEYRICK p. 354 Tr. N. Zeal. Inst. **51.**

Themeliotis inexpleta **sp. n.** Ceylon p. 260, MEYRICK Exot. Microlep. **2.**

Timyra rhizophora **sp. n.** Madras p. 236, MEYRICK T.c.

Tinea irritata Kumaon, *cerinopa* Ceylon, p. 245, *insignata* Assam, *mesoplaca* Madras, *cherota* Nilgiris, p. 246, *atriflua, tylodes*, Ontario, *catalytica*, p. 247, *sequens, analytica, delotoma*, p. 248, *conchylitis* p. 249, Amer. mer., **spp. n.**, MEYRICK T.c.—*T. extracta, ocymora, despecta, praeumbrata*, p. 274, *borboropis, chloroceros*, p. 275, **spp. n.**, Amer. mer., MEYRICK T.c.—*T. sphenocosma* **sp. n.** N. Zealand p. 353, MEYRICK Tr. N. Zeal. Inst. **51.**—*T. cloacella*, early stages, WEISS p. 251 Ent. News **30.**

Tineola scotangela **sp. n.** Bombay p. 245, MEYRICK Exot. Microlep. **2.**—*T. biselliella*, larvae and pupae, SMULYAN Psyche **26** pp. 71–73.

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Xystrologa **gen. n.** p. 271 near *Leucomele, invidiosa, fulvicolor*, **spp. n.**, Amer. mer. p. 272, MEYRICK T.c.

Zymologa **gen. n.** near *Tinea, mylicopa* **sp. n.** Colombia, MEYRICK p. 275 T.c.

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Brachycentrus servatus **sp. n.** Portugal p. 18, NAVÁS Broteria **16** 1918.—*B. nigrisoma,* habits, larva, MURPHY pp. 154–158 pl. xviii J. New York ent. Soc. **27.**

Dipseudopsis simplex, the calcar, LESTAGE p. 331 Rev. zool. afric. **6.**—*D. schoutedeni* **sp. n.** Congo p. 196, figs., LESTAGE T.c.

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Including PANORPATAE and PARAMECOPTERA.

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Ascalaphus hispanicus var. n. *fumata* Spain p. 48, NAVÁS Bol. Soc. ent. España **2.**

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Austrosialis **gen. n.** *Megaloptera* p. 821, *ignicollis* **sp. n.** Tasmania p. 823, figs., TILLYARD P. Linn. Soc. N.S.W. **43.**

†*Belmontia* **gen. n.** p. 234 fam. n. Belmontiidae of the new order *Paramecoptera, mitchelli* **sp. n.** permian N.S.W. p. 235 fig. TILLYARD P. Linn. Soc. N.S.W. **44.**

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Parthenogenesis, EDWARDS pp. 221–228 Ann. nat. Hist. **3.**

Acanthohelea **gen. n.** near *Palpomyia pruinosa* **sp. n.** Sydney, KIEFFER p. 198 Ann. Mus. Hungar. **15** 1917.

Adiamesa ursus **sp. n.** Bäreninseln p. 42, figs. 2 & 3, KIEFFER Ent. Mitt. **8.**

Allobezzia brevicornis **sp. n.** Paraguay p. 328, KIEFFER Ann. Mus. Hungar. **15** 1917.

Allohelea **gen. n.** p. 364 near *Palpomyia* for *pulchripennis* K. etc., KIEFFER T.c. 1917

Apelma **gen. n.** p. 64 near *Dasyhelea*, *auronitens*, *aurosparsum*, p. 65, **spp. n.** Hungary, KIEFFER T.c. 917

Atrichopogon argus, *ruber*, p. 86, *minimus* p. 87, **spp. n.** Formosa, KIEFFER Ann. Mus. Hungar. **14** 1916.

Atrichopogon bifasciatus, *immaculatus*, p. 181, *biroi* p. 182, *sessilis*, *vestitipennis*, p. 183, New Guinea, *coracinus*, *atratus* with var. *rufiventris*, p. 184 N.S. Wales, **spp. n.**, KIEFFER Ann. Mus. Hungar. **15** 1917.—*A. microtomus* p. 299, *auricoma* p. 300, *pallidipes*, *piceiventris*, p. 301, *fiebrigi*, *peruvianus*, p. 302, *sanctilaurentii*, *columbianus* p. 303, **spp. n.** Amer. mer., KIEFFER T.c.—*A. densipluma* Tunis p. 41, *albiscapula* Algeria p. 42, *distictus* p. 43, *abyssiniae* p. 44, *globosus*, Africa, *atriscapula* Tunis, p. 45, **spp. n.**, KIEFFER Ann. Mus. Hungar. **16** 1918.—*A. formosanus* Formosa p. 89, *trifasciatus* p. 90, *transversalis*, *ventralis*, p. 91, Asia Minor, **spp. n.**, KIEFFER T.c.—*A. pilosipennis* p. 23, *tritomus* p. 24, *parvulus*, *montivagus*, p. 25, Hungary, *psilopterus* Europe p. 26, *orbicularis* p. 28 with varr. *cretensis* & *longinervis* Hungary, *silesiacus* p. 30, **spp. n.**, *setosus* n.n. for *setosipennis* p. 27, *transversalis* var. n. *homopterus* p. 29, *ventralis* varr. n. *nigriventris* & *coracellus* p. 30, KIEFFER Ann. Mus. Hungar. **17.**—*A. setosus* n.n. for *setosipennis* K., KIEFFER p. 193 Bull. Soc. ent. France **1919.**

Baeotendipes tibialis **sp. n.** Egypt p. 74, KIEFFER Ann. Mus. Hungar. **16** 1918.

Bezzia separata p. 96, *claripennis*, *kerteszi*, p. 97, **spp. n.**, Formosa, KIEFFER Ann. Mus. Hungar. **14** 1916.—*B. curticornis* p. 196, *australiensis* p. 197, **spp. n.** Sydney, KIEFFER Ann. Mus. Hungar. **15** 1917.—*B. pulchripes* **sp. n.** Paraguay p. 330, KIEFFER T.c.—*B. exclamationis* **sp. n.** Tunis p. 61, KIEFFER Ann. Mus. Hungar. **16** 1918.—*B.*, table of european pp. 112–117, *albosignata* Hungary p. 117, *bohemica* p. 118, *brachycera*, *grisea*, p. 119 Hungary, *belgica* p. 120, *brevipluma*, *fusciclava*, p. 121, *brevinervis*, *strobli*, p. 122, *atripluma* p. 123, Hungary, *leucosticta* Kazan, *cinerella*, p. 124, *armaticrus* p. 125, *flavipluma*, Hungary, *csikiana* Kazan, p. 126, **spp. n.**, KIEFFER Ann. Mus. Hungar. **17.**

Calopsectra americana **sp. n.** Aderondack p. 357, KIEFFER Ann. Mus. Hungar. **15** 1917.—*C. chlorogaster* **sp. n.** Asia minor p. 118, KIEFFER Ann. Mus. Hungar. **16** 1918.

Camptochironomus **subg. n.** vide Chironomus. Kieffer.

Camptocladius petiolatus **sp. n.** Paraguay p. 358, KIEFFER Ann. Mus. Hungar. **15** 1917.—*C. allocerus*, *orthocerus*, p. 77, *ornaticornis* p. 78, *hoegeni*, *longiventris*, p. 79, *monochaetus*, Tunis, *pretorianus* Transvaal, p. 80, *guineensis*, *nigerrimus* Abyssinia, p. 81, **spp. n.**, KIEFFER Ann. Mus. Hungar. **16** 1918.—*C. gracilipes*, *sublaminatus*, p. 126, *flavus*, *arcuatus*, p. 127, *atomus*, India, *orientalis*, p. 128, *villosipes* p. 129, *diplosis* p. 130, *vilis*, *angorensis*, p. 131, *heterocercus* p. 132, Asia Minor, **spp. n.**, KIEFFER T.c.

Cataliptus **gen. n.** p. 94, *peyerimhoffi* **n. sp.** p. 96 figs., BEZZI Bull. Soc. Alger. **7** 1916.

Ceratóbezzia fallax **sp. n.** Paraguay p. 326, KIEFFER Ann. Mus. Hungar. **15** 1917.

Ceratopogon punctum-album, *australiensis*, p. 178, *flaviventris*, *lepidopus*, p. 179, **spp. n.** New Guinea, *latipennis* Sk. to *Didymorphleps* p. 193, KIEFFER T.c.—*C. coquilletti* Adirondack, *tropicus* Costa Rica, **spp. n.** p. 297, KIEFFER T.c.—*C. radiifer* Pretoria p. 35, *striaticornis* Tunis, p. 36, *maurus* p. 37, *fusciforceps* p. 38, *pretorianus* p. 39, *abyssiniae*, Africa, *rufescens* Tunis, p. 40, **spp. n.**, KIEFFER Ann. Mus. Hungar. **16** 1918.—*C. cypri* p. 86, *koniae* p. 87, *cubitalis* Singapore, *ornatipes* Ceylon, p. 88, **spp. n.**, KIEFFER T.c.—*C. squamaticrus* p. 9, *tetrastictus* p. 11, Hungary, *venetianus* Italy, *alboclavatus*, p. 12, *bipunctatus* p. 13, Hungary, *corticicola* Westphalia p. 14, *antrijovis* p. 15, *mediterraneus*, Crete, *distictus*, p. 16, *hirtidorsum* p. 18, *rusticus*, *apricans*, p. 19, *nitens* p. 20, Hungary, KIEFFER Ann. Mus. Hungar. 17.—*C. nitidus*, oviposition, HAMM p. 66 Ent. mo. Mag. **55.**

Chironomas pallidiceps New Guinea p. 209, *imberbis* Sydney, *dissimilis*, p. 210, *erimanus* New Guinea, *lativalva*, p. 211, *sydneyensis*, *curtivalva*, p. 213, Sydney, *pallidiforceps* p. 214, *huonensis*, *dolichopelma*, p. 215, New Guinea, *quadrifasciatus* Queensland p. 216, *tenuiventris* p. 217, *griseidorsum*, *microtomus*, p. 218, *arcuatus* N.S. Wales, *magnivalva* Queensland p. 219, *neglectus* New Guinea, *humilis* N.S. Wales, p. 220, **spp. n.**, *argentiniae* n.n. for *debilis* Arribalz. p. 221, KIEFFER Ann. Mus. Hungar. **15** 1917.—*C. bisignatus*, *natalensis*, p. 67, *ornatipennis*, p. 68, Natal, *brevipalpis* p. 69, *brevicornis* p. 70, Abyssinia, *guineensis* p. 71, **spp. n.**, KIEFFER Ann. Mus. Hungar. **16** 1918.—*C. ornatipes* p. 343, *excisus*, *distinguendus*, p. 346, *melanderi* p. 347, *excavatus*, U.S., *quadripunctatus*, p. 348, *gracilivalva*, *loricatus*, p. 349, *curtipalpis* p. 350, *brevivalva*, *petiolatus*, p. 351 with var. *scutellaris*, *despectus* p. 352, *argentiniensis*, *boliviensis*, p. 353, *pectoralis*, *abjectus*, p. 354, *antennalis* p. 355, Amer. mer., **spp. n.**, KIEFFER T.c.—*C. spitzbergensis* p. 45, figs. 4, 5, *kochianus* Lofoten p. 46, **spp. n.**, KIEFFER Ent. Mitt. **8**.—*C. mallochi* n.n. for *abbreviatus* Mall., *tetrastictus* n.n. for *quadripunctatus* Kieff., KIEFFER p. 191 Bull Soc. ent. France **1919**.—*C. clavaticrus*, EDWARDS p. 223 Ann. nat. Hist. **3**.—*C. colei* **sp. n.** Oregon p. 255, MALLOCH P. Calif. Ac. **9**.—*C. filimanus* p. 106 with var. *ventralis* p. 107 India, *biroi* Ceylon p. 108, *albiscapula* India p. 109, *laminatus* Ceylon p. 110, *sibiriae* Irkutsk p. 111, *sibiricus* Tomsk, *lendli*, p. 112, *nadayanus*, *angorensis*, p. 113, Asia Minor, *C.* (*Camptochironomus* subg. n.) *flavofasciatus* Asia Minor p. 114, **spp. n.**, KIEFFER T.c.—*C. gregarius*, larva, natural history, PAUSE pp. 339–452 Zool. Jahrb. Allg. **36** 1917 figs.

Clinohelea rubriceps **sp. n.** Paraguay p. 318, KIEFFER Ann. Mus. Hungar. **15** 1917.—*C. longipalpis* p. 96, *pachydactylus* p. 97, **spp. n.**, Singapore, KIEFFER Ann. Mus. Hungar. **16** 1918.

Clinotanypus formosae, *immaculatus*, p. 99, *lampronotus* p. 100, **spp. n.**, Formosa, KIEFFER Ann. Mus. Hungar. **14** 1916.

Clinotanypus neotropicus **sp. n.** Paraguay p. 339, KIEFFER Ann. Mus. Hungar. **15** 1917.—*C. claripennis* **sp. n.** Egypt p. 63, KIEFFER Ann. Mus. Hungar. **16** 1918.

Corynoneura innupta **sp. n.** England p. 226, EDWARDS Ann. nat. Hist. **3**.

Cricotopus aequalis **sp. n.** New Guinea p. 227, KIEFFER Ann. Mus. Hungar. **15** 1917.—*C. inornatipes* **sp. n.** Tunis p. 75, KIEFFER Ann. Mus. Hungar. **16** 1918.—*C. micans* p. 122, *orientalis*, **spp. n.**, Asia Minor, *carnosus* var. n. *angorensis*, p. 123, KIEFFER T.c.

Culicoides lineatus, *xanthoceras*, p. 186 New Guinea, *brevitarsis* Australia p. 187, *australiensis* New Guinea p. 188, **spp. n.**, KIEFFER Ann. Mus. Hungar. **15** 1917.—*C. columbianus* p. 304, *hirtipes*, *villosipes*, p. 305, *sanctaemarthae* p. 306, *undecimpunctatus* p. 307, **spp. n.**, Amer. mer., KIEFFER T.c.—*C. griseidorsum* p. 46, *impressus* p. 47, *circumscriptus* p. 49, Tunis, *silvestrii* Cameroons p. 50, *lugens* Natal p. 51, *albosparsus* Abyssinia, *conjunctus*, p. 52, *xanthogaster* p. 53, *remotus*, *guineensis*, p. 54, Guinea, **spp. n.**, KIEFFER Ann. Mus. Hungar. **16** 1918.—*C. albonotatus* p. 94, *nadayanus* p. 95, **spp. n.**, Asia Minor, KIEFFER T.c.—*C.*, table of european pp. 31–36, *latipennis* p. 37, *nanulus* p. 38, *cinerellus* p. 40, Hungary, *belgicus* p. 43, *subfasciipennis* Hungary, *susae* Italy, p. 44, *guttularis* p. 45, *pallidicornis* p. 46, *lacteinervis* p. 47, Hungary, **spp. n.**, KIEFFER Ann. Mus. Hungar. **17**.—*C. meijereri* n.n. for *guttipennis* Meij., KIEFFER p. 192 Bull. Soc. ent. France **1919**.—*C. pulicaris*, metamorphoses, figs., GOETGHEBUER pp. 25–30 Ann. Soc. ent. Belgique **59**.

Dactylocladius clavaticornis p. 118 fig., *galactinus* p. 119, **spp. n.**, Faroe Is., KIEFFER Zool. Jahrb. Syst. **39** 1915.—*D. peruvianus*, *longipalpis*, p. 360, *boliviensis* p. 361, **spp. n.**, Amer. mer., KIEFFER Ann. Mus. Hungar. **15** 1917.—*D. micans* Natal p. 81, *pallidus* Abyssinia p. 82, **spp. n.**, KIEFFER Ann. Mus. Hungar. **16** 1918.—*D. calosandalum*, *indianus*, **spp. n.**, India p. 133, KIEFFER T.c.—*D. heptameris* p. 115 ff. 11 & 12, *spitzbergensis* p. 116 ff. 13 & 14, **spp. n.**, Spitzbergen, *petraeus* var. n. *ursinus* Bäreninseln p. 117 f. 15, KIEFFER Ent. Mitt. **8**.

Dasyhelea myrmedon **sp. n.** New Guinea p. 188, KIEFFER Ann. Mus. Hungar. **15** 1917.—*D. communis* **sp. n.** Tunis p. 55, KIEFFER Ann. Mus. Hungar. **16** 1918.—*D. trifasciata* p. 92, *scutellaris*, *flaviscapula*, p. 93, *distalis* p. 94, **spp. n.** Asia Minor, KIEFFER T.c.—*D.*, table of european pp. 48–54, *microcera* Hungary p. 54, *sensualis* p. 55, *homocera* p. 56, Istria, *lignicola* Bohemia p. 57, *heracleae* Crete p. 59, *acuminata* p. 60, *tarsalis* p. 62, Hungary, **spp. n.**, *strobli* n.n. for *versicolor obscurus* Str. p. 63; various spp. of *Culicoides* referred to *Dasyhelea* p. 64, KIEFFER Ann. Mus. Hungar. **17**.—*D.* = (*Pseudoculicoides* Mall.), KIEFFER p. 192 Bull. Soc. ent. France **1919**.

Diamesa borealis p. 107 fig., *camptoneura* p. 109 fig., **spp. n.**, Faroe Is., KIEFFER Zool. Jahrb. Syst. **39** 1915.—*D. fissipes* var. n. *transversalis* p. 135, KIEFFER Ann. Mus. Hungar. **17**.—*D. arctica* **sp. n.** N.W. America p. 37 C, MALLOCH Rep. canad. arctic exp. **3** C.

Dicrobezzia venusta, sexes p. 127, KIEFFER Ann. Mus. Hungar. **17**.

Dicrohelea **gen. n.** p. 363 for *Palpomyia filicornis* etc., KIEFFER Ann. Mus. Hungar. **15** 1917.

Dicrotendipes formosanus **sp. n.** Formosa p. 115, with var. *frontalis* p. 116, KIEFFER Ann. Mus. Hungar. **14** 1916.—*D. bilobatus* **sp. n.** Sydney p. 222 KIEFFER op. cit. 1917.

Forcipomyia miricornis p. 81, *formosana* p. 83, **spp. n.**, Formosa, KIEFFER Ann. Mus. Hungar. **14** 1916.

Glyptotendipes americanus **sp. n.** U.S. p. 355, KIEFFER Ann. Mus. Hungar. **15** 1917.

Gripekovenia **gen. n.** near *Trissocladius*, *tristis* **sp. n.** Angora, KIEFFER p. 135 Ann. Mus. Hungar. **16** 1918.

Halliella brevimanus **sp. n.** Tunis p. 63, KIEFFER T.c. 1918

Heteromyia brevibarba **sp. n.** Brisbane p. 192, KIEFFER Ann. Mus. Hungar. **15** 1917.—*H. rufa* p. 325, *nigra* p. 326, **spp. n.**, Amer. mer., KIEFFER Ann. Mus. Hungar. **15** 1917.—*H. caloptera* n.n. for *rufa* K., KIEFFER p. 192 Bull. Soc. ent. France **1919**.

Holoconops **gen. n.** p. 135 type *kerteszi* K., KIEFFER p. 135 Ann. Mus. Hungar. **16** 1918.

Homohelea **gen. n.** p. 364 near *Palpomyia*, *abjuncta* K. etc., KIEFFER Ann. Mus. Hungar. **15** 1917.

Jenkinsia boliviensis **sp. n.** p. 331, KIEFFER Ann. Mus. Hungar. **15** 1917.

Johannseniella nitida, copula, figs., GOETGHEBUER p. 202 Ann. Soc. ent. Belgique **58** 1914.

†*Johannsenomyia swinhoei* **sp. n.** Burma in amber p. 243 fig., COCKERELL Entom. **52**.

Lauterbornia septentrionalis **sp. n.** Faroe Is., p. 112 fig., KIEFFER Zool. Jahrb. Abt. Syst. **39** 1915.

Lepidohelea **gen. n.** p. 364 for *Ceratopogon chrysolophus* K., KIEFFER Ann. Mus. Hungar. **15** 1917.

Leptoconops spinosipes **sp. n.** New Guinea p. 190, KIEFFER T.c.—*L. lacteipennis* p. 32, *hyalinipennis* p. 33, *flaviventris* p. 34, **spp. n.**, Tunis, KIEFFER Ann. Mus. Hungar. **16** 1918.

Macropelopia rectinervis Hungary p. 145, *curvinervis* Susa p. 146, *atrinervis* Croatia, *tenuiventris* p. 148, *subtenuis* p. 150, Hungary, **spp. n.**, KIEFFER Ann. Mus. Hungar. **17**.

Metriocnemus praticola p. 115 fig., *parcepilosus* p. 115, *crassipes* p. 116 fig., *faeroensis* p. 117 fig., **spp. n.**, Faroe Is., KIEFFER Zool. Jahrb. Syst. **39** 1915.—*M. ornaticornis* **sp. n.** Sydney p. 225, KIEFFER Ann. Mus. Hungar. **15** 1917.—*M. tropicus* **sp. n.** Paraguay p. 363, KIEFFER T.c.—*M. fractinervis*, *luctuosus*, **spp. n.**, Asia Minor p. 119, KIEFFER Ann. Mus. Hungar. **16** 1918.—*M. borealis* Lofoten p. 118, *cataractarum* Spitzbergen p. 119 ff. 17–18, **spp. n.**, and *cataractarum* var., KIEFFER Ent. Mitt. **8**.

Microhelea **gen. n.** p. 364 for *Atrichopogon tropicus* K., KIEFFER Ann. Mus. Hungar. **15** 1917.

Micropsectra angorensis **sp. n.** Asia Minor p. 117, KIEFFER Ann. Mus. Hungar. **16** 1918.

Mixohelea **gen. n.** p. 364 for *Palpomyia polysticta* etc., KIEFFER Ann. Mus. Hungar. **15** 1917.

Monohelea hieroglyphica **sp. n.** Paraguay p. 312, KIEFFER T.c.

Orthocladius lobatipennis **sp. n.** Tunis p. 82, KIEFFER Ann. Mus. Hungar. **16** 1918.—*O. arcticus* **sp. n.** Spitzbergen p. 48, KIEFFER Ent. Mitt. **8**.—*O. mallochi* n.n. for *lacteipennis* Mall., KIEFFER p. 191 Bull. Soc. ent. France **1919**.—*O. sordidellus* etc. in the sea, ELMHIRST p. 193 Scott Natural. **1919**.

Palpomyia divisa, spinifera, p. 94, *indivisa* p. 95, **spp. n.**, Formosa, KIEFFER Ann. Mus. Hungar. **14** 1916.—*P. bifasciata* Queensland, *imparunguis* New Guinea, **spp. n.**, p. 194, KIEFFER Ann. Mus. Hungar. **15** 1917.—*P. tenuicrus* p. 320, *crassicrus, microchela*, p. 321, *inermicollis* p. 322, *columbiana, callangana*, p. 323, *boliviensis* p. 324, **spp. n.**, Amer. mer., KIEFFER T.c.—*P. ruficeps, flavipectus*, p. 59, *fuscipectus* p. 60, *micans* p. 61, **spp. n.**, Tunis, KIEFFER Ann. Mus. Hungar. **16** 1918.—*P. crassi femur* Ceylon p. 98, *inermithorax* Singapore p. 99, **spp. n.**, KIEFFER T.c.—*P.* table of european pp. 89–97, *goetghebueri* Belgium p. 98, *fulvescens* p. 100, *atripectus, rubra*, p. 101, *flaviscutellum, terminalis*, p. 103, *infuscata, longipennis*, p. 104, *angustipennis, pubescens*, p. 105, *spinosior* p. 106, *longicornis* p. 107, *nigripectus* p. 108, *fusciclava* p. 109, *tinctipennis, atricoxa*, Hungary, *obscuripennis* Croatia, p. 110, *nigridorsum* Hungary p. 111, **spp. n.**, KIEFFER Ann. Mus. Hungar. **17**.

Paraclunio trilobatus, valid, KIEFFER p. 194 Bull. Soc. ent. France **1919**.

Paratendipes nigrofasciatus, concoloripes, p. 117, *astictus* p. 118, **spp. n.**, Formosa, KIEFFER Ann. Mus. Hungar. **14** 1916.—*P. tunisiae* **sp. n.** p. 72, KIEFFER Ann. Mus. Hungar **16** 1918.

Paryphoconus angustipennis p. 332, *anomalicornis* p. 333, **spp. n.**, Amer. mer., KIEFFER Ann. Mus. Hungar. **15** 1917.

Pelopia trisema p. 104, *faeroensis borealis* fig., p. 105, **spp. n.**, Faroe Is., KIEFFER Zool. Jahrb. Syst. **39** 1915.—*P. gracillima* **sp. n.** Formosa p. 102, KIEFFER Ann. Mus. Hungar. **14** 1916.

Polypedilum iricolor p. 119, *consobrinum, monostictum, nanulus*, p. 120, **spp. n.**, Formosa, KIEFFER Ann. Mus. Hungar. **14** 1916.—*P. apicale* **sp. n.** New Guinea p. 221, KIEFFER Ann. Mus. Hungar. **15** 1917.—*P. clavatum* **sp. n.** Paraguay p. 356, KIEFFER T.c.—*P. abyssiniae* **sp. n.** p. 65, KIEFFER Ann. Mus. Hungar. **16** 1918.

Probezzia xanthogaster Kazan, *typhae* Bohemia, **spp. n.**, p. 130, KIEFFER Ann. Mus. Hungar. **17**.

Procladius floralis **sp. n.** Faeroe Is, p. 103, fig., KIEFFER Zool. Jahrb. Syst. **39** 1915.—*P. australiensis* p. 200 with var. *bipunctatus, pentastictus* p. 201, *villosimanus* p. 202, **spp. n.**, Sydney, KIEFFER Ann. Mus. Hungar. **15** 1917.

Prodiamesa fulva p. 132, *nitida* p. 133, **spp. n.**, Hungary, KIEFFER Ann. Mus. Hungar. **17**.—*P. bathyphila*, larval structure, habits, THIENEMANN Zeitschr. wiss. Insbiol. **14** pp. 209–217.

Protenthes vilipennis **sp. n.** Hungary p. 137, KIEFFER Ann. Mus. Hungar **17**.

Psectrocladius brevicosta **sp. n.** Washington p. 362, KIEFFER Ann. Mus. Hungar. **15** 1917.—*P. tunisiae* **sp. n.** p. 75, KIEFFER Ann. Mus. Hungar. **16** 1918.—*P. versicolor* p. 120, *angorensis, polychaetus*, p. 121, **spp. n.**, Asia Minor, KIEFFER T.c.—*P. borealis* **sp. n.** Spitzbergen p. 110, KIEFFER Ent. Mitt. **8**.

Psectrotanypus brevicalcar var. n. *diplosis* p. 156, KIEFFER Ann. Mus. Hungar. **17**.

Psilodiamesa spitzbergensis **sp. n.** p. 42, KIEFFER Ent. Mitt. **8**.

Psilohelea flaviventris Croatia p. 66, *borealis* Lofoten islds. p. 68, **spp. n.**, KIEFFER Ann. Mus. Hungar. **17**.—*P. borealis* **sp. n.** Lofoten inseln p. 41 fig. 1, KIEFFER Ent. Mitt. **8**.

Rheotanytarsus guineensis **sp. n.** p. 73, KIEFFER Ann. Mus. Hungar. **16** 1918.

Riethia **gen. n.** *Chironomariae, stictoptera*, p. 203, *asticta* p. 205, **spp. n.**, N.S. Wales, KIEFFER Ann. Mus. Hungar. **15** 1917.

Schizoconops **gen. n.** near *Leptoconops, indicus* **sp. n.** Bengal, KIEFFER p. 135 Ann. Mus. Hungar. **16** 1918.

Serromyia micronyx Hungary p. 70, *albitarsis* Germany p. 71, *spinosipes* Hungary p. 72 with var. *subinermis* p. 73, *inermipes* Italy p. 73, **spp. n.**, KIEFFER Ann. Mus. Hungar. **17**.

Sphaeromias sejuncta p. 90, *uncinata* p. 91, *connexa* p. 92, *conjuncta* p. 93, **spp. n.**, Formosa, KIEFFER Ann. Mus. Hungar. **14** 1916.—*S. tenuissima* **sp. n.** New Guinea p. 195, KIEFFER Ann. Mus. Hungar. **15** 1917.—*S. albidiventris* **sp. n.** Colombia p. 316, KIEFFER Ann. Mus. Hungar. **15** 1917.—*S. nitidus* varr. n. *remotus* p. 87 and *clavicornis* and *longiforceps* p. 88, KIEFFER Ann. Mus. Hungar. **17**.—*Sphaeromias* C. = (*Johannsenomyia* Mall.), KIEFFER p. 192 Bull. Soc. ent. France **1919**.

Stenochironomus **gen. n.** *Chironominae* p. 44, KIEFFER Ent. Mitt. **8**.

Stictochironomus **gen. n.** *Chironominae* p. 44, KIEFFER Ent. Mitt. **8**.

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Diphalangarpe **gen. n.** *Culicidae* type *Wycomyia abascanta* D. & K. p. 126, DYAR T.c.

Dodecamyia **gen. n.** *Culicidae* p. 138, type *Wyeomyia aphobema* Dyar fig. 11, *splendida* fig. 12, *clasoleuca* fig. 13, ♂ genitalia pl. v, DYAR T.c.

Eubonnea **subg. n.** type *Culex tapena* **sp. n.** Surinam p. 150, DYAR T.c.

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Hystatomyia **gen. n.** p. 140 type *Wyeomyia circumcincta* D. & K. fig. 14, *intonca* D. & K. fig. 15, ♂ genitalia pl. v, DYAR T.c.

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Lemmamyia **gen. n.** *Culicidae* type *Limatus methysticus* D. & K. p. 140, DYAR Insec. inscit. **7.**—*L. pseudomethysticus* **sp. n.** Surinam p. 166, BONNE-WEPSTER & BONNE Insec. inscit. **7.**

Lesticocampa moralesi **sp. n.** Guatemala p. 3, DYAR & KNAB Insec. inscit. **7.**—*L.* synonymy pp. 9–10, *trichopus* **sp. n.** Brazil p. 10, DYAR Insec. inscit. **7.**

Lophoceratomyia cairnsensis **sp. n.** p. 837 pl. lxxxii figs. 8 & 9, TAYLOR P. Linn. Soc. N.S.W. **43.**

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Miamyia **gen. n.** *Culicidae* type *Wyeomyia symmachus* D. & K. p. 116, DYAR T.c.

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Phoniomyia; key of species p. 121, *longirostris* pl. v fig. 2; *trinidadensis* pl v fig. 3, ♂ genitalia, DYAR T.c.

Prosopolepis fluo **sp. n.** Surinam p. 169, BONNE-WEPSTER & BONNE Insec. inscit. **7.**

Pseudoskusea cairnsensis **sp. n.** p. 829, TAYLOR P. Linn. Soc. N.S.W. **43.**

Sabethes; key p. 119, *cyaneus* synonymy p. 120, DYAR Insec. inscit. **7.**—*S. bipartipes, chroiopus*, synonymy p 165, BONNE-WEPSTER & BONNE Insec. inscit. **7.**

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Sabethinus moerbista **sp. n.** Guiana p. 2, DYAR & KNAB Insec. inscit. **7.**—*Sabethinus;* key p. 118, DYAR Insec inscit. **7.**

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Triamyia gen. n. *Culicidae* type *Wyeomyia aporonoma* D. & K. p. 120, DYAR Insec. inscit. **7.**

Trichoprosopon (*Joblotia*) *shropshirei* sp. n. Panama p. 168, LUDLOW Psyche **26.**

Uranotaenia cairnsensis, tibialis pl. lxxxii f. 11, p. 839, *antennalis* p. 840, *hilli* p. 841 f. 12, spp. n., Australia, TAYLOR P. Linn. Soc. N.S.W. **43.**

Wyeomyia ; Key of species pp. 127–129, *melanopus* p. 130 fig. 4, *roloncetta* p. 131 fig. 16, spp. n. Panama, *fallax* fig. 6, *rolonca* fig. 7, *adelpha* fig. 8, ♂ genitalia pl. v, DYAR Insec. inscit. **7.**—*W. prolepidis* p. 1, *fauna* p. 2, spp. n. Panama, DYAR & KNAB Insec. inscit. **7.**—*W. occulta* p. 105, *albosquamata* p. 107, *fallax* p. 110, *splendida* p. 111, spp. n. Surinam, BONNE-WEPSTER & BONNE Insec. inscit. **7.**—*W. aphobema*, larva, BONNE-WEPSTER & BONNE p. 114 Insec. inscit. **7.**

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Cladura oregona **sp. n.** Oregon p. 147, ALEXANDER Insec. inscit. **7.**

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†*Mesomyites concinna*, to *Styringomyia*, COCKERELL p. 44 Nature **103.**

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Rhamphidia monticola **sp. n.** Sumatra p. 18, EDWARDS J. Fed. Malay St. Mus. **8** pt. 3.—*R. albitarsis fuscipes* and *fumipennis* subspp. n. Panama p. 137, ALEXANDER J. New York ent. Soc. **27.**

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Dolichodema gen. n. p. 147 *Pachygastrinae africana* sp. n. Fernando Po p. 148, Kertész T.c.

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Ligyromyia gen. n. p. 200 *Pachygastrinae, columbiana* sp. n. Colombia p. 201, Kertész T.c.

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Platynomyia **gen. n.** p. 173 *Pachygastrinae, dimorpha* **sp. n.** E. Africa p. 175, KERTÉSZ T.c. 1916

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Pseudocyphomyia **gen. n.** p. 149 *Pachygastrinae, mimetica* **sp. n.** Amazons p. 150, KERTÉSZ Ann. Mus. Hungar. **14** 1916.

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Pyelomyia **gen. n.** p. 189 *Pachygastrinae, annualata* **sp. n.** Peru p. 190, KERTÉSZ T.c. 1916

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Rosapha variegata **sp. n.** Sumatra, DE MEYERE Bydr. Dierk. **21** p. 19.

Saldubella **gen. n.** p. 142 *Pachygastrinae* type *signatipennis* Wulp, *yombae* **sp. n.** New Guinea p. 145, KERTÉSZ Ann. Mus. Hungar. **14** 1916.

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Sathroptera **gen. n.** p. 540 *Pachygastrinae, flavipes* **sp. n.** Celebes p. 541, KERTÉSZ Ann. Mus. Hungar. **12** 1914.

Solva tinctipes **sp. n.** Sumatra, DE MEYERE Bydr. Dierk. **21** p. 21.

Spaniomyia **gen. n.** p. 462 type *pulchripennis* Br., KERTÉSZ Ann. Mus. Hungar. **12** 1914.

Stratiomyia atra **sp. n.** Oregon p. 223, fig., COLE P. Calif. Ac. **9.**

Thopomyia **gen. n.** p. 171 *Pachygastrinae, dichroa* **sp. n.** Peru p. 172, KERTÉSZ Ann. Mus. Hungar. **14** 1916.

Thylacognathus **gen. n.** p. 157 *Pachygastrinae* for *lativentris* Wulp, KERTÉSZ T.c. 1916

Tinda; the species pp. 449–455, *maxima* **sp. n.** Cameroons p. 452, KERTÉSZ Ann. Mus. Hungar. **12** 1914.

Wallacea argentifer **sp. n.** Singapore p. 516, KERTÉSZ T.c.—*W. darwini* **sp. n.** Australia p. 460 figs., HILL P. Linn. Soc. N.S.W. **44.**

Zabrachia magnicornis **sp. n.** New Mexico p. 171, CRESSON P. Ac. Philad. **71.**

SCENOPINIDAE OF OMPHRALIDAE.

Omphrale; variation in nervuration. WAHLGREN pp. 205–207 figs. Ent Tidskr **40.**

TABANIDAE.

Swarms in Florida, MOSIER & SNYDER pp. 186–196 Pr. ent. Soc. Washington **21.**

Some larvae, unnamed, KÜHNEMANN Mitt. zool. Mus. Berlin **9.**

Collecting and transmitting larvae, MARCHAND pp. 131–137 Ent. News **30.**

Chrysops, wing-pictures of North-american, table of species, McAtee & Walton pp. 194–198 P. ent. Soc. Washington **20.**

Cydistomyia **gen. n.** Tabaninae *doddi* **sp. n.** Queensland, Taylor p. 47 P. Linn. Soc. N.S.W. **44.**

Neochrysops **gen. n.** p. 191, *globosus* **sp. n.** U.S. p. 102 fig., Walton P. ent. Soc. Washington **20.**

Pangonia zonata, suctorial habits, Schwetz Rev. zool. afric. **7** p. 46–54.—*P.*; habits, the species is *inornata* not *zonata*, Schwetz T.c. pp. 92–106.

Silvius angusticallosus p. 44, *hackeri* p. 45, *vicinus* p. 46, **spp. n.**, Queensland, *elongatulus* var. n. *persimilis* p. 43, Taylor P. Linn. Soc. N.S.W. **44.**

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Tabanus (*Therioplectes*) *tetricus* Caucasus p. 661, *sareptanus* S. Russia p. 662, *nitidifrons*, *nigellus*, E. Siberia p. 664, *T.* (*Atylotus*) *peculiaris* Turkestan p. 665, *albifrons* Tunis p. 668, *T. brunnescens* Cyprus p. 671, *mixtus* Mediterranean p. 672, **spp. n.**, Szilády Ann. Mus. Hungar. **12** 1914.—*T. walteri* p. 48 pl. i f. 1, *eidsvoldensis* p. 49 pl. ii f. 2, *obscurilineatus* p. 50 pl. i f. 3, *obscurimaculatus* p. 51 pl. ii f. 4, *quadratus* p. 52, *australicus* p. 53, *daphoenus* p. 54, *griseus* p. 55, *aprepes* p. 56, *kurandae* pl. i f. 5, *batchelori* pl. ii f. 6, p. 58, *atmophorus* p. 59 pl. i f. 7, *cryptoerythrus* p. 60, *fugitivus* p. 61, *silviformis* p. 62, *minor* pl. i f. 8, *hilli* pl. ii f. 9 p. 64, *davidsoni* p. 65, *palpalis* p. 66, *kendallensis* p. 68, *robustus* p. 69, *geraldtonensis* p. 70 pl. i f. 12, **spp. n.** Australia, Taylor P. Linn. Soc. N.S.W. **44.**—*T. townsendi* n.n. for *angustifrons* T., Johnson p. 428 Bull. Amer. Mus. **41.**—*T. atratus* var. n. *fulvopilosus*, Johnson p. 164 Psyche **26.**—*T.*, table of some North-american, McAtee & Walton P. ent. Soc. Washington **20** pp. 198–205.

Mydaidae.

Ecthypus limbatus, male, Cresson p. 188 P. ac. Philad. **71.**

Leptomydas, males, Cresson pp. 188 & 189 T.c.—*L. pantherinus*, male, pl. xv f. 10, p. 228, Cole P. Calif. Ac. **9.**

Asilidae.

†*Asilus wickhami* **sp. n.** p. 648 Colorado Miocene, Cockerell Philadelphia Proc. Acad. **66** 1915.

Cerotainia macrocera var. n. *jamaicensis*, Johnson p. 430 Bull. Amer. Mus. **41.**

Chrysoceria pollenia **sp. n.** Oregon p. 237 fig., Cole P. Calif. Ac. **9.**

Cinadus genitalis **sp. n.** Sumatra p. 34, Edwards J. Fed. Malay St. Mus. **38** pt. 3.

Cophura cyrtopogona **sp. n.** Oregon p. 236 fig., Cole P. Calif. Ac. **9.**

Cyrtopogon auratus p. 230, *anomalus* p. 231, *nebulo* p. 232, *infuscatus*, *perspicax*, p. 233, **spp. n.**, Oregon figs., Cole T.c.

Dioctria vertebrata **sp. n.** Oregon p. 230 fig., Cole T.c.

Eutolmus albiseta p. 315, *substriatus* p. 316, **spp. n.**, Tunis, Becker Ann. Mus. Hungar. **13** 1915.

Habropogon carthaginiensis **sp. n.** p. 307, Becker T.c.

Heligmoneura carthaginis, *clypeata*, p. 312, **spp. n.**, Tunis, Becker T.c.—*H. indianus* p. 74, *sinensis* p. 75, *neavii* p. 76, Katanga, *africanus* p. 77, *natalensis* p. 78, **spp. n.**, Ricardo Ann. nat. Hist. **3.**

Heteropogon albibarbatus p. 308, *alter* p. 309, **spp. n.**, Tunis, Becker Ann. Mus. Hungar. **13** 1915.

Lasiopogon cinereus **sp. n.** Oregon p. 229 fig., Cole P. Calif. Ac. **9.**

Leptogaster contermina **sp. n.** Sumatra p. 31, Edwards J. Fed. Malay St. Mus. **8** pt. 3.—*L. aridus* **sp. n.** Oregon p. 229, Cole P. Calif. Ac. **9.**

Machimus perplexus **sp. n.** Tunis p. 317, Becker Ann. Mus. Hungar. **13** 1915.—*M. chinensis* p. 45, *assamensis* p. 46, *coerulescens*, *dubius*, p. 47, *hirtipes* p. 48, *indianus* p. 50, *khasiensis* p. 51, *montanus* p. 52, *nigrinus* p. 53, *parvus* p. 54, *tibialis* p. 55, India, *ugandiensis* Africa p. 56, **spp. n.**, Ricardo Ann. nat. Hist. **3.**

Metapogon setigerum **sp. n.** Oregon p. 235 fig., Cole P. Calif. Ac. **9.**

Neoitamus ceylonicus p. 60, *grandis* p. 61, *hindostani* p. 62, *inornatus* p. 63 India, *nigricans* Luzon p. 64, *pulcher* Ceylon p. 65, *rubrofemoratus* Tientsin p. 67, *siamensis* p. 68, *tropicus* India p. 69, *tarsalis* Ceylon p. 70, *neavensis* Congo p. 72, *africanus* E. Africa p. 73, **spp. n.**, *longistylus* numerous synonyms p. 59, RICARDO Ann. nat. Hist. **3.**

Nusa cruenta Florida p. 244, *sicaria* Texas p. 246, **spp. n.**, MCATEE Ohio Nat. **19.**

Scylaticus miniatus **sp. n.** Tunis p. 310, BECKER Ann. Mus. Hungar. **13** 1915.

Stichopogon dorsatus **sp. n.** Tunis p. 306, BECKER T.c.

LEPTIDAE.

Arthropeas jonesi **sp. n.** California p. 176, CRESSON P. Ac. Philad. **71.**

Chrysopilus egregius **sp. n.** Sumatra, DE MEYERE Bydr. Dierk. **21** p. 22.—*Chrysopila* (*Poppiusiella* subgen. n.) *arctica* Kanin **sp. n.**, FREY Acta Soc. Fauna et Fl. Fenn. **46** No. 2 1918 p. 28.—*C. gilvipennis* **sp. n.** Sumatra p. 30, EDWARDS J. Fed. Malay St. Mus. **8** pt. 3.—*C. nudus* p. 176, *dilatus* p. 177, **spp. n.**, California, CRESSON P. Ac. Philad. **71.**

Poppiusiella **subgen. n.** vide *Chrysopila.* Frey 1918

Ptiolina grandis Kanin **sp. n.** FREY Acta Soc. Fauna et Fl. Fenn. **46** No. 2 1918 p. 31.

Rhagio sinuatus p. 28, *korinchiensis, montivagus,* p. 29, **spp. n.**, Sumatra, EDWARDS J. Fed. Malay St. Mus. **8** pt. 3.

ACROCERIDAE OR CYRTIDAE.

Monograph of North-american Cyrtidae, COLE pp. 1–79 15 pls. Tr. amer. ent. Soc. **45.**

Acrocera convexa California p. 53 pl. x f. 29, *hubbardi* Arizona p. 58 f. 31, **spp. n.**, *bakeri* var. n. *arizonensis* p. 51 pl. ix f. 28, *bulla* var. n. *melanderi* p. 55, COLE T.c.

Camposella **gen. n.** p. 271, *insignata* **sp. n.** Guayaquil p. 272 pl. xi, COLE Ent. News **30.**

Megalybus & *Thyllis,* characters, pp. 54–63 pl. ii, COLE Canad. Ent. **51.**

Ocnaea schwarzi Cuba p. 25, *loewi* pl. iii f. 12, *coerulea* f. 14 Texas p. 26, **spp. n.**, COLE Tr. amer. ent. Soc. **45.**

Ogcodes niger Utah p. 65 pl. xv f. 41, *marginatus* Wyoming p. 67 f. 42, *borealis* Quebec, *rufoabdominalis* Utah p. 68, **spp. n.**, COLE T.c.

Opsebius nipponensis **sp. n.** p. 94 figs., COLE Canad. Ent. **51.**—*O. diligens* var. n. *hyalinus* p. 47, COLE Tr. amer. ent. Soc. **45.**

Pterodontia johnsoni **sp. n.** Seattle p. 42, COLE T.c.

BOMBYLIIDAE.

Anastoechus bahirae, fuscipennis, **spp. n.**, Tunis p. 326, BECKER Ann. Mus. Hungar. **13** 1915.—*A.*, table pp. 51–55 ; *asiaticus* Transcaspian p. 55, *bitinctus* Spain, *flaveolus* Egypt p. 56, *intermedius* Transcaspian, *montium* Alai mts. p. 57, *sibiricus* Baikal p. 59, *viduus* Greece p. 60, **spp. n.**, BECKER Ann. Mus. Hungar. **14** 1916.

Anisotamia, composition, CRESSON p. 180 P. Ac. Philad. **71.**

Anthrax macula **sp. n.** Oregon p. 226 fig., COLE P. Calif. Ac. **9.**

Bombylius striatus **sp. n.** Tunis p. 325, BECKER Ann. Mus. Hungar. **13** 1915.—*B. silvus* p. 225 **sp. n.** Oregon fig., *aurifer pendens* subsp. n. p. 226, COLE P. Calif. Ac. **9.**—*B. facialis* **sp. n.** Arizona p. 187, CRESSON P. Ac. Philad. **71.**

Cononedys bituberculata **sp. n.** Tunis p. 322, BECKER Ann. Mus. Hungar. **13** 1915.

Cytherea discipes **sp. n.** Tunis p. 320, BECKER T.c.

Eclimus laniger p. 182, *yosemite* p. 183, **spp. n.**, California, CRESSON P. Ac. Philad. **71.**—*E. celer* **sp. n.** Oregon p. 224, *magnus* O.S. male p. 225 fig., COLE P. Calif. Ac. **9.**

Empidideicus serenus **sp. n.** Tunis p. 329, BECKER Ann. Mus. Hungar. **13** 1915.

Epacmus pallidus **sp. n.** Texas p. 181, CRESSON P. Ac. Philad. **71.**

Exhyalanthrax **subg. n.** of *Villa* [but treated as distinct] p. 44, *argentifer* Greece p. 46, *autumnalis* Asia Minor, Becker 1916

confusus Greece. etc., p. 47, *contrarius* Dalmatia p. 48, *pauper* N. Africa p. 49, **spp n.**, BECKER Ann. Mus. Hungar. **14** 1916.

Exoprosopa fumosa Mexico p. 177, *jonesi* California, *E.* (*Exoptata*) *ingens* Arizona p. 178, CRESSON P. Ac. Philad. **71.**

Geron digitaria p. 184 with var. *robusta, nivea*, p. 185, **spp. n.**, U.S., CRESSON T.c.

†*Geron* (?) *platysoma* **sp. n.** Colorado Miocene p. 643, COCKERELL Philadelphia Proc. Acad. **66** 1915.

Heterostylum vierecki **sp. n.** New Mexico p. 186, CRESSON P. Ac. Philad. **71.**

Lomatia hamifera **sp. n.** Tunis p. 321, BECKER Ann. Mus. Hungar. **13** 1915.

Lordotus divisus **sp. n.** New Mexico p. 186, CRESSON P. Ac. Philad. **71.**

Phthiria incisa **sp. n.** Tunis p. 328, BECKER Ann. Mus. Hungar. **13** 1915.—*P. psi* **sp. n.** California p. 186, CRESSON P. Ac. Philad. **71.**

Plesiocera flavifrons **sp. n.** Tunis p. 324, BECKER Ann. Mus. Hungar. **13** 1915.

Sinaia **gen. n.** p. 65, *kneuckeri* **sp. n.** Sinai p. 66, BECKER Ann. Mus. Hungar. **14** 1916.

Spogostylum argentum **sp. n.** Oregon p. 227 fig., COLE P. Calif. Ac. **9.**—*S. vierecki* **sp. n.** U.S. p. 180, CRESSON P. Ac. Philad. **71.**

Systoechus pumilio **sp. n.** Tunis p. 327, BECKER Ann. Mus. Hungar. **13** 1915.—*S.* table pp. 60–62, *longirostris* Sarepta p. 63, *tesquorum* Europe, Tunis, p. 64, *unicolor* Dalmatia p. 65, **spp. n.**, BECKER Ann. Mus. Hungar. **14** 1916.

Systropus varipes **sp. n.** Sumatra p. 36, EDWARDS J. Fed. Malay St. Mus. **38** pt. 3.

Villa laevis **sp. n.** Tunis p. 318, BECKER Ann. Mus. Hungar. **13** 1915.—*Villa* (*Hylanthrax*) p. 18 tables pp. 18–27, *albida* Hungary p. 28, *bizonata, bombiformis*, Asia minor p. 29, *brunnea* Greece p. 30, *disjuncta* Sahara p. 32, *fasciculata, haesitans*, Greece p. 33, *inconstans* Tunis p. 34, *inquieta* Corsica p. 35, *mus* Armenia p. 36, *nana* Tunis p. 37, *quinta* p. 39, *suprema* Asia minor, *satanas* Alai mts. p. 40, *tomentosa* Mediterr. p. 41, **spp. n.**, BECKER Ann. Mus. Hungar. **14** 1916.—*Villa*, correction to table, BECKER *op. cit.* **15** p. 382 1917.—*V. webberi* p. 11, *lepidotoides* p. 12 N. America, **spp. n.**, JOHNSON Psyche **26.**

NEMESTRINIDAE.

Hirmoneura bradleyi **sp. n.** Texas p. 301 fig., BEQUAERT J. New York ent. Soc. **27.**

Nemestrinus pubescens Konia p. 274, *variicolor, modestus*, Turkestan p. 276, **spp. n.**, LICHTWARDT Ann. Mus. Hungar. **17.**

Neohirmoneura **subg. n.** of *Hirmoneura* type *H. flavipes* Will., BEQUAERT p. 306 J. New York ent. Soc. **27.**

EMPIDAE.

†*Empis miocenica, florissantana* p. 645, 2 ff., **spp. n.**, Colorado Miocene, COCKERELL Philadelphia, Proc. Acad. **66** 1915.

Hybos pilosipes, longisetosus p. 24, **spp. n.**, Sumatra, DE MEYERE Bydr. Djerk. **21.**

Pieltania **gen. n.**, *iberica* **sp. n.**, Spain, p. 479, figs. 1, 2, ARIAS Bol. Soc. Españ. Hist. Nat. **19.**

Rhamphomyia phanerostigma Archangelsk **sp. n.**, FREY Acta Soc. Fauna et Fl. Fenn. **46** No. 2 1918 p. 8.—*R. erinacioides* p. 45C, *ursina, similata*, p. 46C, *herschelli* p. 47C, *conservativa* p. 48C, **spp. n.**, N.W. America, MALLOCH Rep. Canad. arctic exp. **3C.**

Tachydromia articulatoides Archangelsk **sp. n.**, FREY Acta Soc. Fauna et Fl. Fenn. **46** No. 2 1918 p. 11.—*T. harti* **sp. n.**, Illinois p. 248, MALLOCH Canad. Ent. **51.**

DOLICHOPIDAE.

Palaearctic *Dolichopidae*, BECKER Nov. Act. L. C. Ak. **102** 1917 pp. 115–361, and **103** 1918 pp. 205–315, and **104** 1918 pp. 27–214; text-figs.

Anahydrophorus **gen. n.**, *Dolichopodidae* for *Scatophaga cinerea* Fbr. p. 298, BECKER Nova Acta L.C. Ak. **102** 1917.

Argyra canariensis Teneriffa p. 67, *perplexa* Europa merid. p. 71 fig., *setulipes* Rossia merid. p. 72, *striaticollis* Polonia p. 73, **spp. n.**, BECKER Nova Acta L.C. Ak. **104** 1918.—*A. splendida* **sp. n.** Sumatra, DE MEYERE Bydr. Dierk. **21** p. 25.

Asyndetus occidentalis California p. 249, *longipalpis* Guatemala p. 250, **spp. n.**, VAN DUZEE Ent. News **30**.

Campsicnemus maculatus **sp. n.**, Europa mer. p. 88, BECKER Nova Acta L.C. Ak. **104** 1918.

Chrysotus nigerrimus Asia Minor p. 57, *nudus* Tunisia p. 58, **spp. n.**, BECKER T.c.

Diaphorus table of species pp. 163–166; **spp. n.**, Virginia, *basalis* p. 168, f. 13, *vittatus* p. 175, *antennatus* Mexico p. 169, *ventralis* British Honduras p. 170, *adustus* Idaho, Nevada p. 172, *gibbosus* north-eastern U.S. p. 173; Oregon, *alienus* p. 176, f. 8, *occidentalis* p. 180, f. 11, *albiciliatus* Guatemala p. 177, *quadratus* Ontario p. 179, f. 10; California, *parmatus* p. 181, f. 1, *repandus* p. 183, ff. 3, 14; *remulus* South Dakota p. 182, f. 2, *usitatus* Oregon, Idaho p. 184, f. 4; Idaho *aldrichi* p. 185, f. 5, *triangulatus* p. 189, f. 7, *similis* Pennsylvania p. 186, f. 6, *trivittatus* Florida p. 187, *variabilis* eastern U.S. p. 191, *femoratus* Louisiana p. 194, *leucostoma infuscatus* var. n. Washington D.C., New Jersey p. 179, **spp. n.**, VAN DUZEE Buffalo Bull. Soc. Nat. Sci. **11** 1915.—*D. varifrons* **sp. n.** Tunis p. 46, BECKER Nova Acta L.C. Ak. **104** 1918.

Dolichopus divisus Mongolei and Sibirien p. 133, *falcatus* Schlesien p. 136, *fusiformis* Turkestan p. 138, *griseifacies* Sibiria p. 141, *lapponicus* Lapponia p. 141 fig. *mucronatus* Lapponia p. 147, *nigrescens* Korsika p. 148, *nigrilamellatus* Ural p. 149, **spp. n.**, *occultus* nom. n. for *cilifemoratus* Staeg. nec. Macq., *pictitarsis* Polonia p. 152, *ruftinctus* Ural p. 154, *steini* Germania p. 157, *sublimbatus* Warschau p. 158, *syracusanus* Sicilia p. 159, *syriacus* Syria p. 159, *turkestani* Turkestan p. 161, **spp. n.**, BECKER Nova Acta L.C. Ak. **102** 1917.—*D. dasyops* **sp. n.** N.W. America p. 49C, MALLOCH Rep. Canad. Arctic exp. **3C**.

Epithalassius corsicanus p. 266 figs., *caucasicus* p. 267 fig., **spp. n.**, BECKER Nova Acta L.C. Ak. **103** 1918.—*E. elegantulus* **sp. n.** Royan p. 352, VILLENEUVE Bull. Soc. ent. France **1919** 1920

Hercostomus insularum Kanarische Inseln p. 221 fig., *strobianus* Ungarn p. 237 fig., *varicoloris* Kaukasus p. 238, fig., **spp. n.**, BECKER Nova Acta L.C. Ak. **102** 1917.

Hydrophorus, the swedish, *albosignatus* **sp. n.** p. 16, RINGDAHL Ent. Tidskr. **40**.—*H. tibetanus* **sp. n.** Tibet p. 292, BECKER Nova Acta L.C. Ak. **102** 1917.—*H. pilitarsis* **sp. n.** Alaska p. 51C, MALLOCH Rep. Canad. Arctic Exp. **3C**.

Medeterus longicauda Europa centr. p. 342, *murina* Kaukasus p. 343, *subglauca* Lapponia p. 345, *tertia* Germania p. 346 fig., *vagans* Europa centr. et sept. p. 347, **spp. n.**, BECKER Nova Acta L.C. Ak. **102** 1917.—*M. falcatus*, *similis* p. 261, *novus*, *longinquus*, p. 262, *aeneus*, *cuneiformis*. p. 263, *nitidiventris*, *obesus*, p. 264, *aequalis*, *frontalis*, p. 265, *distinctus*, *obscuripennis*, p. 266, *halteralis* p. 267, *vittatus*, *oregonensis*, p. 268, Am. bor., *planipes*, *flavipes*, p. 269, *abruptus* p. 270, Guatemala, **spp. n.**, VAN DUZEE P. Calif. Ac. 9.—*M. caerulescens* **sp. n.** Illinois p. 8, larva p. 9, MALLOCH Ent. News **30**.

Microtes **gen. n.** p. 132, *mediterraneus* **sp. n.** Insel Brioni und Korfu p. 133 figs., BECKER Nova Acta L.C. Ak. **104** 1918.

Muscidideicus **subg. n.** of *Hercostomus* for *Dolichopus praetextatus* Halid. p. 268, BECKER Nova Acta L.C. Ak. **102** 1917.

Neurogona longipes Ural p. 309 figs., *uralensis* Ural p. 311, **spp. n.**, BECKER Nova Acta L.C. Ak. **103** 1918.

Oligochaetus perplexus **sp. n.** Tunisia p. 353, BECKER Nova Acta L.C. Ak. **102** 1917.

Tachytrechus argentatus **sp. n.** Sumatra, DE MEYERE Bydr. Dierk. **21** p. 25.

Porphyrops hungarica Hungary p. 220, *psilopoda* Württemberg p. 225, **spp. n.**, BECKER Nova Acta L.C. Ak. **103** 1918.

Sciopus albimanus **sp. n.** Spain p. 156, *glaucescens* var. n. *brionii* Insel Brioni Istrien p. 162, *maritimus* **sp. n.** Eur. p. 186 fig., *aberrans* **sp. n.** Syria p. 187 fig., BECKER Nova Acta L.C. Ak. **104** 1918.

Sphyrotarsus herve-bazini **sp. n.** Gallia sept. p. 302 figs., PARENT in Becker Nova Acta L.C. Ak. **102** 1917.

Submedeterus **gen. n.** p. 360, *cuneatus* **sp. n.** Ungarn p. 361 fig., BECKER T.c.

Sympycnus imperfectus **sp. n.** Hungary p. 107, BECKER Nova Acta L.C. Ak. **104** 1918.

Syntormon abbreviatus Tunisia p. 272 fig., *bisetosus* Silesia p. 275 fig., *mutillatus* Europa mer. p. 280 fig., *tabarkae* Tunisia p. 285 figs., **spp. n.**, BECKER Nova Acta L.C. **103** 1918.

Systenus obscurior **sp. n.** Europa p. 258, BECKER T.c.

Thrypticus fennicus **sp. n.** Finnland p. 356 fig., BECKER Nova Acta L.C. Ak. **102** 1917.

Xanthochlorus ultramontanus **sp. n.** p. 131 fig., BECKER Nova Acta L.C. Ak. **104** 1918.

Xiphandrium anale Europa merid. p. 237 fig., *bilamellatum* Ober-Österreich p. 241 fig., *filatum* Europa sept. p. 246 fig., *intermedium* Europa centr. p. 248 fig., *tridens* Europa centr. p. 253 fig., *trifidum* Alpes p. 254 fig., **spp. n.**, BECKER Nova Acta L.C. Ak. **103** 1918.

LONCHOPTERIDAE OR MUSIDORIDAE.

Musidora orientalis **sp. n.** Formosa p. 675, KERTÉSZ Ann. Mus. Hungar. **12** 1914.

PHORIDAE, TERMITOXENIDAE.

The occurrence of wingless *Phoridae* on the Fiji Islands; BRUES Psyche **26** p. 49.

Acontistoptera brasiliensis **sp. n.** Brazil, SCHMITZ p. 527, fig. Zool. Jahrb. Abt. Syst. **37** 1914.

Aenigmatopoeus **gen. n.** p. 354 *orbicularis* **sp. n.** Kamerun p. 536 figs., SCHMITZ T.c.

Aphiochaeta anisodactyla, *cothurnata*, p. 110, *carpalis* p. 112, *unicolor* p. 113, *manualis* p. 113, *fenestralis* p. 114, *praeacuta* p. 115, *virilis* p. 116, *subnudipennis* p. 117, *berndseni* p. 118, **spp. n.**, Centr. Europe, SCHMITZ Ber. Ned. Ent. Ver. **5**.—*A. aculeata* p. 142, *ignobilis* p. 143, *fusco-halterata* p. 144, *cuspidata* p. 145, **spp. n.**, Centr. Eur., SCHMITZ T.c., errata T.c. p. 159.—*A. oldenbergi* p. 191, *rubricornis* p. 193, Germany, *septentrionalis* Sweden p. 194, **spp. n.**, SCHMITZ T.c.—*A. alaskensis*, *platychira*, **spp. n.**, N.W. America, MALLOCH p. 52 C Rep. Canad. arctic exp. **3** C.

Beckerina luteola **sp. n.** Illinois p. 256, MALLOCH Canad. Ent. **51**.

Conoprosopa armigera, synonymy, figure, BRUES Psyche **26** p. 42, fig. 1.

Echidnophora **gen. n.** *Phoridae* p. 256, *butteli* **sp. n.** Java Sumatra p. 257 fig., SCHMITZ Zool. Jahrb. Jena Abt. System. **39** 1916.

Ecitophora **gen. n.** p. 524, *comes* **sp. n.** S. Brazil p. 524 figs., SCHMITZ T.c.

Hexacantherophora **gen. n.** p. 512, *cohabitans* **sp. n.** Belgian Congo p. 512 and figs., SCHMITZ T.c.

Hypocera dohrniphoridea **sp. n.** Bismarck-Archipel, ASSMUTH Tydschr. Ent. **62** p. 198.

Odontoxenia **gen. n.** *Termitoxeniidae* p. 236, *brevirostris* **sp. n.** Java p. 237, SCHMITZ Zool. Jahrb. Jena Abt. System. **39** 1916.

Paraphiochaeta picta var. n. *fasciiventris* p. 342, BRUES Bull. Amer. Mus. **41**.

Paraspinophora scutellata jamaicensis subsp. n. p. 341, BRUES T.c.—*P. armipes* **sp. n.** Natal p. 40, BRUES Psyche **26**.

Phalacrotophora pictofasciata **sp. n.** Hungary p. 195, SCHMITZ Ent. Ber. Nederl. Ent. Ver. **5**.

Phora pressata **sp. n.** Paris, BECKER p. 449 Parasitol. **11**.—*P. aptina*, notes on, SCHMITZ Tydschr. Ent. **61** p. 236.

Plastophora wasmanni p. 528 figs., *solenopsidis* p. 531 figs., Brazil **spp. n.** SCHMITZ Zool. Jahrb. Abt. Syst. **37** 1914.

Pseudostenophora antricola **sp. n.** Südost-Europa, SCHMITZ Tydschr. Ent. **61** p. 233.

Rhynchomicropteron caecutiens **sp. n.** Bombay p. 519 figs., SCHMITZ Zool. Jahrb. Abt. Syst. **37** 1914.

Termitoxenia punctiventris Java p. 244 figs., *longiceps* Perak p. 249, *clitellaria* Ceylon p. 255 fig., **spp. n.**, SCHMITZ Zool. Jahrb. Jena Abt. System. **39** 1916.

Trupheoneura pachyneurella Dolomites p. 189, *aequalis* Potsdam p. 189, **spp. n.**, SCHMITZ Ent. Ber. Nederl. Ent. Ver. **5.**

PIPUNCULIDAE or DORYLAIDAE.

Dorylas pulvillatus p. 387, *roralis* p. 389, *separatus* p. 390, Formosa, *gratiosus* Paraguay p. 391, **spp. n.**, *lentiger* p. 386 n.n. for *mutilatus* K. 1912, KERTÉSZ Ann. Mus. Hungar. **13** 1915.

Pipunculus; its parasitism, WILLIAMS pp. 65–68 P. Hawai ent. Soc. **4.**—*P. cressoni, jamaicensis*, **spp. n.**, Jamaica p. 433, JOHNSON Bull. Amer. Mus. **41.**

PLATYPEZIDAE.

Agathomyia lutea **sp. n.** Oregon p. 238, fig., COLE P. Calif. Ac. **9.**

SYRPHIDAE.

Syrphidae singing, CARTER p. 18 Ent. Mag. **55**; WALLIS p. 33 T.c.

Allograpta fracta, natural history, DAVIDSON pp. 235–239 Canad. Ent. **51.**

Arctosyrphus **gen. n.** nahe *Helophilus*, *nitidulus* Archangelsk **sp. n.**, FREY Helsingfors Acta Soc. Fauna et Fl. Fenn. **46** No. 2 1918 p. 15.

Arctophila apiformis **sp. n.** Sumatra, DE MEYERE Bydr. Dierk. **21** p. 27.

Brachyopa gigas **sp. n.** Oregon p. 243, fig., LOVETT P. Calif. Ac. **9.**

Brachypalpus pigra **sp. n.** Oregon p. 241, LOVETT T.c.

Callicera sumatrensis **sp. n.** Sumatra, DE MEYERE Bydr. Dierk. **21** p. 26.

Chalcomyia aerea, larva, MALLOCH p. 25 Ent. News **30.**

Chilosia ferruginea p. 238, *nigrovittata* p. 239, *pacifica* p. 240, **spp. n.**, Oregon, LOVETT P. Calif. Ac. **9.**

Criorhina aurea p. 248, *luna* p. 249, fig., *quadriboscis* p. 250, figs., **spp. n.**, Oregon, LOVETT T.c.

Didea annandalei **n. sp.** Persia p. 299, BRUNETTI Rec. Ind. Mus. Calcutta **16.**

Didea pacifica **sp. n.** Oregon p. 246, LOVETT P. Calif. Ac. **9.**

Eumerus strigatus, in North America, METCALF pp. 170–174 Ent. News **30.**

Graptomyza obtusa p. 77, *dolichocera* p. 79, *cynocephala* p. 81, *dentata* p. 83, **spp. n.**, Formosa. figs., KERTÉSZ Ann. Mus. Hungar. **12** 1914.

Helophilus (*Mesembrius*) *atrolaneus* **sp. n.** Sumatra p. 43, EDWARDS J. Fed. Malay St. Mus. **8** pt. 3.

Korinchia **gen. n.** p. 39 near *Protylocera*, *klossi* p. 40, *robinsoni, monticola*, p. 41, **spp. n.**, Sumatra, EDWARDS T.c.

Milesia minor **sp. n.** Sumatra, DE MEYERE Bydr. Dierk. **21** p. 28.

Phytomia tenebrica **sp. n.** Sumatra p. 42, EDWARDS J. Fed. Malay St. Mus. **8** pt. 3.

Pipiza oregona **sp. n.** p. 246, fig., LOVETT P. Calif. Ac. **9.**

Platychirus frontosus **sp. n.** Oregon p. 247, LOVETT T.c.

Rhingia robinsoni **sp. n.** Sumatra p. 38, EDWARDS J. Fed. Malay St. Mus. **8** pt. 3.

Sericomyia crassipes **sp. n.** Sumatra p. 44, EDWARDS T.c.

Sphegina orientalis **sp. n.** Formosa p. 73, KERTÉSZ Ann. Mus. Hungar. **12** 1914.

Syrphus latifasciatus var. n. *submaculatus* Archangelsk, FREY Acta Soc. Fauna et Fl. Fenn. **46** No. 2 1918 p. 13. —*S. bimaculata* p. 244 fig., *pacifica* p. 245, **spp. n.**, Oregon, LOVETT P. Calif. Ac. **9.**—*S. sodalis* var. n. *interruptus* Alaska p. 55 C, MALLOCH Rep. canad. arctic exp. **3** C.—*S. wiedemanni* n.n. for *americanus* Wied., JOHNSON p. 32 Canad. Ent. **51.**

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Volucella rotundata **sp. n.** Sumatra p. 38, EDWARDS J. Fed. Malay St. Mus. **8** pt. 3.

Xylota scutellarmata p. 241, *stigmatipennis* p. 242, **spp. n.**, Oregon, LOVETT P. Calif. Ac. **9.**

CONOPIDAE.

Dalmannia blaisdelli, **sp. n.** Colorado p. 190, CRESSON P. Ac. Philad. **71.**

Robertsonomyia **gen. n.** for *Zodion palpalis*, MALLOCH p. 205 Pr. ent. Soc. Washington **21.**

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Atrypoderma **gen. n.** for *Musca americana* Fabr., TOWNSEND p. 592 P. U.S. nat. Mus. **56.**

Gastrophilus nasalis, oviposition. CAMERON p. 26 Science **49.**—*G. equi*, habits, HAMM p. 229 Ent. Mo. Mag. **55,**

Notes on the species of *Gastrophilus* found in South Africa, BEDFORD Fifth & Sixth Rep. Dir. Vet. Res. Dept. Agric. Un. S. Afric. pp. 627–643 6 pls.

Homotrixa **gen. n.** p. 437, *brevifacies* **sp. n.** Formosa p. 440, VILLENEUVE Ann. Mus. Hungar. **12** 1914.

Hypoderma bovis, penetration, STUB København Mdskf. Dyrl. **31** pp. 230–231.

Oedemagena tarandi, larva pl. viii figs. 14 & 17, MALLOCH p. 55 C, Rep. Canad. arctic exp. **3** C.

Oestrus interruptus **sp. n.** Africa p. 333, GEDOELST Bull. ent. Res. **9.**

Plesiooestrus **gen. n.** p. 439, *albifacies* **sp. n.** Congo p. 441, VILLENEUVE Ann. Mus. Hungar. **12** 1914.

Xanthooestrus **gen. n.** p. 438, *fastuosus* **sp. n.** Formosa p. 440, VILLENEUVE T.c. 1914

Xystomima **gen. n.** p. 438, *maculipennis* **sp. n.** Congo p. 439, VILLENEUVE T.c. 1914

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Descriptive and synonymic notes, VILLENEUVE pp. 259 & 260 Ann. Soc. ent. France **88.**

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Alliopsis obesa **sp. n.** N.W. America, MALLOCH p. 70 C Rep. Canad. arctic exp. **3** C.

Ammomyia flavipes, rufitibia, **spp. n.**, Peru p. 239, STEIN Ann. Mus. Hungar. **16** 1918.

Anaclysta flexa, male, STEIN p. 156 Ann. Mus. Hungar. **16** 1918.

Anametopochaeta **gen. n.** *Lydellini, olindoides* **sp. n.** Peru, TOWNSEND p. 571 P. U.S. nat. Mus. **56.**

Anaporia **gen. n.** type *Aporia limacodis*, TOWNSEND p. 560 T.c.

Angioneura enigmatica **sp. n.** Lille & Berlin p. 307, VILLENEUVE Bull. Soc. ent. France **1919.**

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Aphantorhapha **gen. n.** *Bigonichetini, arizonica* **sp. n.**, TOWNSEND p. 586 P. U.S. nat. Mus. **56.**

Aravaipa **gen. n.** *Salmaciini, atrophopoda* **sp. n.** Arizona, TOWNSEND p. 589 T.c.

Aricia borealis **sp. n.** N.W. America p. 64 C, MALLOCH Rep. canad. arctic exp. **3** C.—*A. bicolorata* p. 253, *oregonensis* p. 254, **spp. n.**, Oregon, MALLOCH P. Calif. Ac. **9.**

Aubaeanetia **gen. n.** p. 569 *Lydellini, assimilis* **sp. n.** U.S. p. 570, TOWNSEND P. U.S. nat. Mus. **56.**

Austrolydella **gen. n.** near *Stomatolydella, assimilis* **sp. n.** Peru, TOWNSEND p. 573 T.c.

Beskioleskia **gen. n.** *Leskiini, busckii* **sp. n.** Panama, p. 562, TOWNSEND T.c.

Bezzimyia **gen. n.** p. 591 near *Chiricahuia, busckii* **sp. n.** Panama p. 592, TOWNSEND T.c.

Bufolucilia **gen. n.** type *L. bufonivora* Mon., TOWNSEND p. 542 T.c.

Calyptromyia **gen. n.** near *Leucostoma, barbata* **sp. n.** Formosa, VILLENEUVE p. 92 Ann. Mus. Hungar. **13** 1915.

Calythea fasciata **sp. n.** Sarnia p. 199, STEIN Ann. Mus. Hungar. **16** 1918.

Casahuiria **gen. n.** p. 581 *Argyrophylacini, cornuta* **sp. n.** Peru p. 582, TOWNSEND P. U.S. nat. Mus. **56.**

Charadrella macrosoma v.d. Wulp, STEIN p. 232 Ann. Mus. Hungar. **16** 1918.

Charapemyia **gen. n.** *Gymnochetini* p. 589, *calida* **sp. n.** Peru p. 590, TOWNSEND P. U.S. nat. Mus. **56.**

Chlorosarcophaga **gen. n.** p. 542 *Stephanostomatini*, *cochliomyia* **sp. n.** Panama p. 543, TOWNSEND T.c.

Chortophila parcepilosa V. to *Hylemyia*, VILLENEUVE p. 260 Ann. Soc. ent. France **88.**

Chrysotachina peruviana **sp. n.** p. 590, TOWNSEND P. U.S. nat. Mus. **56.**

Clinopera scutellata **sp. n.** Jamaica p. 440, JOHNSON Bull. Amer. Mus. **41.**

Coenosia cingulata p. 160, *longicornis* p. 161, *radiata* p. 162, *trigonalis* p. 163, **spp. n.**, Formosa, STEIN Ann. Mus. Hungar. **16** 1918.—*C. albicoxa* p. 200, *costata*, *fascigera*, p. 201, *flavivibrissata*, *punctigera*, p. 202, **spp. n.** Africa, STEIN T.c.—*C. albipila* S. America or Africa p. 242, *lanigera* Sierra S. Lorenzo p. 243, **spp. n.**, STEIN T.c.—*C. oregonensis* **sp. n.** p. 254, MALLOCH P. Calif. Ac. **9.**—*C. alticola* p. 303, *parvisquama* p. 304, **spp. n.**, California, MALLOCH T.c.—*C. fuscifrons* **sp. n.** Ontario p. 96, MALLOCH Canad. Ent. **51.**

Compsilura concinnata, natural history, anatomy, CULVER Bull. U.S. dep. Agric. **766** 35 pp. pl.

Compsoptesis **gen. n.** p. 90 near *Phasia*, *rufula*, *phoenix*, **spp. n.**, Formosa p. 92, VILLENEUVE Ann. Mus. Hungar. **13** 1915.

Copecrypta andina **sp. n.** Peru p. 591, TOWNSEND P. U.S. nat. Mus. **56.**

Crocuta lutea **sp. n.** U.S. p. 584, TOWNSEND T.c.

Cryptolucilia obscuripes **sp. n.** Formosa p. 149, STEIN Ann. Mus. Hungar. **16** 1918. *C. hirticeps*, *marginipennis*, **spp. n.**, Africa p. 188, STEIN T.c.

Cyrtoneurina, valid p. 223, *inflexa* Brazil p. 224, *limbisquama* Vera Cruz p. 225, *mellina* Brazil p. 226, *nudinervis* Cordoba p. 227, *pallipes* Paraguay p. 228, **spp. n.**, STEIN T.c.

Dejeania; African spp. pp. 135–141, ENGEL Ent. Mitt. **8.**

Dialyta nigropolita **sp. n.** California p. 302, MALLOCH P. Calif. Ac. **9.**

Eocarcelia **gen. n.** p. 582, *ceylanica* **sp. n.** p. 583, TOWNSEND P. U.S. nat. Mus. **56.**

Eremomyia major **sp. n.** California p. 310, MALLOCH P. Calif. Ac. **9.**

Euphormia **gen. n.** type *Musca regina* Meig., TOWNSEND p. 542 P. U.S. nat. Mus. **56.**

Eutorocca **gen. n.**, *Cordyligasterini*, *fasciata* **sp. n.** Ceylon, TOWNSEND T.c.

Eutritochaeta **gen. n.** near *Tritochaeta*, *carpocapsae* **sp. n.** Arkansas, TOWNSEND p. 580 T.c.

Fannia interrupta **sp. n.** Formosa p. 153, MALLOCH Ann. Mus. Hungar. **12** 1914.—*F. prisca* **sp. n.** Formosa p. 154, STEIN Ann. Mus. Hungar. **16** 1918.—*F. fasciata* p. 194, *fruticosa* p. 195, **spp. n.**, New Hannover Africa, STEIN T.c.—*F. flavipes* **sp. n.** Paraguay p. 234, STEIN T.c.

Fortisia, table, *rondanii* **sp. n.** Corsica, VILLENEUVE p. 356 Bull. Soc. ent. France **1919** 1920.

Ginglymia acrirostris, larva & pupa, LLOYD p. 264 pl. xxv J. New York ent. Soc. **27.**

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Graphomyia rufitibia **sp. n.** Formosa p. 147, STEIN Ann. Mus. Hungar. **16** 1918.—*G. eximia* **sp. n.** New Guinea p. 199, STEIN Nova Guinea **13** Zool.

Gymnocarcelia **gen. n.**, *ricinorum* **sp. n.** Florida (= *Sturmia albifrons* Coq.), TOWNSEND p. 582 P. U.S. nat. Mus. **56.**

Haematobia nudinervis p. 150, *rufipes* p. 151, **spp. n.** Formosa, STEIN Ann. Mus. Hungar. **16** 1918.

Helina fletcheri **sp. n.** Illinois p. 274, MALLOCH Canad. Ent. **51.**—*H. tuberculata* **sp. n.** Labrador p. 277, MALLOCH T.c.—*H. fuscomarginata* **sp. n.** California p. 298, MALLOCH P. Calif. Ac. **9.**

Hesperodinera **gen. n.** near *Dinera, cinerea* **sp. n.** New Mexico, TOWNSEND p. 551 P. U.S. nat. Mus. **56.**

Hydrophoria arctica **sp. n.** N.W. America p. 69c, MALLOCH Rep. canad. arctic exp. 3c.—*H. seticauda* **sp. n.** California p. 306, MALLOCH P. Calif. Ac. **9.**

Hydrotaea longipila **sp. n.** New-Hannover Africa p. 194, STEIN Ann. Mus. Hungar. **16** 1918.—*H. lasiophthalma* p. 297 **sp. n.** California, MALLOCH P. Calif. Ac. **9.**

Hylemyia pedestris p. 274, *quintilis* p. 275, **spp. n.** Illinois, MALLOCH Canad. Ent. **51.**—*H. recurva* p. 308, *normalis, extremitata,* p. 309, **spp. n.** California, MALLOCH P. Calif. Ac. **9.**—*H.* (*Pogonomyza*) *spinosissima* **sp. n.** Ontario p. 95, MALLOCH Canad. Ent. **51.**—*H. montana* **sp. n.** Colorado p. 134, MALLOCH P. biol. Soc. Washington **32.**—*H. winnemana* **sp. n.** U.S. p. 209, MALLOCH T.c.—*H. acrostichalis* **sp. n.** Alaska p. 72c, MALLOCH Rep. canad. arctic exp. 3c.—*H. nidicola* **sp. n.** N. America p. 380, TOWNSEND Ann. Amer. Ent. Soc. **12.**—*H. latifrons* **sp. n.** Mexico p. 236, STEIN Ann. Mus. Hungar. **16** 1918.

Hypenomyia **gen. n.** *Microchaetini, petiolata* **sp. n.** Arizona, TOWNSEND p. 545 P. U.S. nat. Mus. **56.**

Incamyiopsis **gen. n.** *Germariini, imitatrix* **sp. n.** Peru, TOWNSEND p. 587 T.c.

Leptodexia **gen. n.** *Calirrhoini, gracilis* **sp. n.** Peru, TOWNSEND p. 550 T.c.

Leptomacquartia **gen. n.** p. 568 *Macquartiini, planifrons* **sp. n.** Peru p. 569, TOWNSEND T.c.

Leucomelina cubana **sp. n.** Cuba p. 442, JOHNSON Bull. Amer. Mus. **41.**

Limnophora suturalis **sp. n.** Formosa p. 155, STEIN Ann. Mus. Hungar. **16** 1918.—*L. conversa* **sp. n.** Madagascar p. 196, STEIN T.c.—*L. aurantiaca* **sp. n.** Deslacs isld. p. 174, STEIN T.c.—*L. incrassata* p. 299, *magnipunctata* p. 301, **spp. n.** California, MALLOCH P. Calif. Ac. **9.**

Lispa mirabilis **sp. n.** India p. 176, *glabra* Wied. queried p. 175, STEIN Ann. Mus. Hungar. **16** 1918.—*L. hirtitarsis* Bourbon & Réunion p. 197, *leucosticta, pennitarsis,* p. 198 Madagascar, **spp. n.,** STEIN T.c.

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Lydellothelaira **gen. n.** *Euthelairini* p. 558, *collaris* **sp. n.** Peru p. 559, TOWNSEND P. U.S. nat. Mus. **56.**

Lyperosia irritans, natural history, WILHELMI S.B. Ges. naturf. Fr. Berlin **1917.**

Macatecia **gen. n.** near *Hammomyia, protuberans* **sp. n.** U.S., MALLOCH p. 1 P. biol. Soc. Washington **32.**—*M. atra* **sp. n.** California p. 305, MALLOCH P. Calif. Ac. **9.**

Machairomasicera **gen. n.** p. 577, *Meigeniini, carinata,* **sp. n.,** Ecuador p. 578, TOWNSEND P. U.S. nat. Mus. **56.**

Matucania **gen. n.** *Macquartiini, mellisquama,* **sp. n.,** Peru, TOWNSEND p. 568 T.c.

Megaeuloewia **gen. n.** p. 545 *Myiophasiini, morinioides,* **sp. n.,** New Mexico p. 546, TOWNSEND T.c.

Meigenielloides **gen. n.** p. 573 *Lydellini, cinerea,* **sp. n.,** New Mexico p. 574, TOWNSEND T.c.

Melinda distinguished from *Onesia, M. cognata* life history and habits, KEILIN pp. 430–455 pls. xxii-xxv Parasitol. **11.**

Metallicomintho **gen. n.** *Minthoini, abdominalis* **sp. n.,** Arizona, TOWNSEND p. 555 P. U.S. nat. Mus. **56.**

Metatachina **gen. n.** *Germariini, mellifrons,* **sp. n.** Maine, TOWNSEND p. 588 T.c.

Metoposarcophaga tothilli p. 155, *pachyproctosa* p. 157, **spp. n.,** Am. bor. figs., PARKER Canad. Ent. **51.**

Microaporia **gen. n.** p. 560, Uramyini, *elegans,* **sp. n.,** Peru p. 561, TOWNSEND P. U.S. nat. Mus. **56.**

Microchaetona **gen. n.** near *Phyllophilopsis, gracilis,* **sp. n.,** Peru, TOWNSEND p. 565 T.c.

Micromintho **gen. n.** p. 554, *Minthoini, melania,* **sp. n.,** Arizona p. 555, TOWNSEND T.c.

Minthohoughia **gen. n.** near *Houghia, cylindrica,* **sp. n.**, Peru, TOWNSEND p. 581 T.c.

Minthomyia **gen. n.** *Myiominthoini, abdominalis* **sp. n.**, Peru, TOWNSEND p. 564 T.c.

Minthozelia **gen. n.** *Zeliini* p. 556, *montana,* **sp. n.**, Arizona p. 557, TOWNSEND T.c.

Morellia abdominalis p. 186, *bicolor* p. 187, **spp. n.** Uganda, STEIN Ann. Mus. Hungar. **16** 1918.—*M. cyanicolor* India, *sordidisquama* Ceylon p. 164, **spp. n.**, STEIN T.c.

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Mydaea attenta India p. 167, *bistriata* New Guinea p. 168, *diaphana* p. 169, *morosa,* Ceylon, *pallens* Penang, p. 170, *rufiventris* New Guinea p. 171, *splendida* Ceylon, *tenax* Hongkong, p. 172, *tibiella* Darjiling p. 173, **spp. n.**, STEIN Ann. Mus. Hungar. **16** 1918.—*M. antennata* p. 151, *lauta* p. 152, **spp. n.**, Formosa, STEIN T.c.—*M. armata* p. 203, *decipiens* p. 204, *distincta* p. 205, *frontalis* p. 206, *quadristriata* p. 208, **spp. n.** New Guinea, STEIN Nova Guinea **13** Zool.—*M. flavoscutellata* Madagascar, *ovata,* p. 191, *rutila, setulosa,* p. 192, Africa, **spp. n.**, *mulcata* = (*nemoralis*), *mollis* ♂ = (*hirticeps* St.), p. 191, STEIN Ann. Mus. Hungar. **16** 1918.—*M. anomala* Jaenn. pp. 212–214; *cinnamomima* Paraguay, *convexa* Mexico, p. 214, *brevipectinata* p. 215 Brazil, *dorsipuncta* Mexico, *latipalpis* Brazil, p. 216, *longipila* Peru p. 217, *maculipes* Mexico p. 218, *sparsiplumata* Brazil p. 219, *tarsalis* Cuernavaca p. 220, *tinctinervis* Brazil p. 221, *trichops* Peru, *vibrissata* Brazil, p. 222, **spp. n.**, STEIN T.c.—*M. winnemana* **sp. n.** U.S. p. 133, MALLOCH P. biol. Soc. Washington **32**.

Mydaea; in Ann. Mus. Hungar. **16**, 1918, pp. 179–186, STEIN gives a table of species of *Mydaea* in which the following names are mentioned as "**nov. sp.**" but without descriptions or locality being given, *viz., laccata* p. 179, *semipellucida* p. 180, *tibiella, setulinervis, tenax, rufiventris, pallens, bistriata,* p. 181, *distincta, frontalis, vittithorax, diluta, setulipes,* p. 182, *attenta, splendida, antennata,* p. 183, *demens, armata,* p. 184, *decipiens, quadristriata, dolosa, semidiaphana, diaphana,* p. 185, *lauta* p. 186.

Mydaeina **gen. n.** near *Mydaea, obscura* **spn. n**, N.W. America, MALLOCH p. 62c. Rep. canad. arctic. exp. 3c.

Myothyriopsis **gen. n.** *Lydellini, bivittata* **sp. n.** Brazil, TOWNSEND p. 575 P. U.S. nat. Mus. **56**.

Neoerigone **gen. n.** p. 590 *Gymnochetini, cinerea* **sp. n.** Brazil p. 591, TOWNSEND T.c.

Neomuscina **gen. n.** near *Muscina, cavicola,* **sp. n.** Arizona, TOWNSEND p. 541 T.c.

Neoscotia **nom. n.** for *Scotia* R.D., TOWNSEND p. 579 T.c.

Neowinthemia **gen. n.**, *abdominalis* **sp. n.** Virginia, TOWNSEND p. 583 T.c.

Ochromeigenia **gen. n.**, *ormioides* **sp. n.** Java, TOWNSEND p. 578 T.c.

Oestroplagia **gen. n.** p. 566 *Voriinipetiolata* **sp. n.** Arizona p. 567, TOWNSEND T.c.

Ollachea **gen. n.** p. 576, *Meigeniini, elongata* **sp. n.** Peru p. 577, TOWNSEND T.c.

Opelousia **gen. n.** *Moriniini, obscura* **sp. n.** Louisiana, TOWNSEND p. 547, T.c.

Ophyra nigromarginata **sp. n.** Mauritius p. 193, STEIN Ann. Mus. Hungar. **16** 1918.

Opsidiopsis **gen. n.** *Miltogrammini, oblata* **sp. n.** New Mexico, TOWNSEND p. 544 P.U.S. nat. Mus. **56**.

Opsoleskia **gen. n.** p. 565 *Myiominthoini, flava* **sp. n.** Bartica p. 566, TOWNSEND T.c.

Opsomeigenia **gen. n.** for *Hypostena pusilla* Coq., TOWNSEND p. 577 T.c.

Opsotheresia **gen. n.** *Theresiini, obesa* **sp. n.** Maryland, TOWNSEND p. 552 T.c.

Opsozelia **gen. n.** *Zeliini, discalis* **sp. n.** Bartica, TOWNSEND p. 557 T.c.

Ormia brevicornis Texas, *dominicana* Santo Domingo, **spp. n.** p. 548, TOWNSEND T.c.

Pachynocera **gen. n.** *Bigonichetini, petiolata* **sp. n.** Peru, TOWNSEND T.c.

Pandelleia alpicola **sp. n.** Hautes-alpes p. 353, VILLENEUVE Bull. Soc. ent. France **1919** 1920.

Parameigenia **gen. n.** *Meigeniini* for *Paradexodes albifacies* T., TOWNSEND p 576 P. U.S. nat. Mus. **56.**

Paracraspedothrix **gen. n.** near *Helocera, montivaga* **sp. n.** Europe, VILLENEUVE Bull. Soc. ent. France **1919** 1920.

Parathelaira **gen. n.** *Euthelairini, panamensis,* **sp. n.,** TOWNSEND p. 558 P.U.S. nat. Mus. **56.**

Parazelia **gen. n.** *Zeliini, pulchra* **sp. n.** Panama, TOWNSEND p. 556 T.c.

Pegomyia angustiventris **sp. n.** Formosa p. 159, STEIN Ann. Mus. Hungar. **16** 1918.—*P. bistriata* **sp. n.** Java p. 177, STEIN T.c.—*P. cinctinervis* p. 239, *dolosa* p. 240, Mexico, *maculipennis* Tucuman, *nigrifemur* Cuernavaca, p. 241, **spp. n.** STEIN T.c.—*P. vanduzeei* **sp. n.** California p. 307, MALLOCH P. Calif. Ac. **9.**

Peleteria arctica **sp. n.** N.W. America p. 57c, MALLOCH Rep. Canad. arctic. exp. 3c.

Pergandea **gen. n.** *Anthomyinae, apivora* **sp. n.** U.S., ALDRICH P. ent. Soc. Washington **21** p. 106 fig.

Petrosarcophaga **gen. n.** p. 543, *Stephanostomatini, arizonica* **sp. n.** p. 544, TOWNSEND P.U.S. nat. Mus. **56.**

Phaonia acerba p. 166, *debilis* p. 167, **spp. n.,** India, STEIN Ann. Mus. Hungar **16** 1918.—*P. minima, imitatrix,* **spp. n.** N.W. America, MALLOCH p. 61c Rep. canad. arctic exp. 3c.—*P. winnemanae* **sp. n.** U.S. p. 3, MALLOCH P. biol. Soc. Washington **32.**—*P. rufibasis* p. 207. *flavibasis, aberrans,* p. 208, **spp. n.** U.S., MALLOCH T.c.—*P. limbinervis* Mexico p. 208, *marginata* p. 209, *nervicincta, nigrocincta,* p. 210, *pterospila* p. 211, Amer. mer., **spp. n.,** STEIN Ann. Mus. Hungar. **16** 1918.—*P. biseta,* male, STEIN p. 189 Ann. Mus. Hungar. **16** 1918.

Phasiophyto **gen. n.** *Melanomyini, fumifera* **sp. n.** Peru, TOWNSEND p. 548 P.U.S. nat. Mus. **56.**

Phorbia brevitarsata **sp. n.** Alaska p. 73c, MALLOCH Rep. canad. arctic. exp. 3c.

Phormia caerulea **sp. n.** N.W. America p. 59C, MALLOCH T.c.—*P. metallica* **sp. n.** N. America p. 379, TOWNSEND Ann. Amer. Ent. Soc. **12.**

Phrynofrontina **gen. n.** p. 579, *Phrynoini, convexa* **sp. n.** U.S. p. 580, TOWNSEND P.U.S. nat. Mus. **56.**

Phrynolydella **gen. n.** near *Lydella polita* **sp. n.** Arizona, TOWNSEND p. 572 T.c.

Plagia parva **sp. n.** Jamaica p. 436, JOHNSON Bull. Amer. Mus. **41.**—*P. ruralis,* larva, figs., NIELSEN Vid. Medd. **70** p. 1-3 ; entoparasitic larvae, NIELSEN København. Nath. Medd. **70** p. 1-3 figs.

Pogonomyia quadrisetosa **sp. n.** N.W. America p. 66c, MALLOCH Rep. canad. arctic. exp. 3c.

Pogonomyioides **gen. n.** *atrata* **sp. n.** N.W. America, MALLOCH p. 67c. T.c.

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Topomeigenia **gen. n.** p. 575 *Meigeniini, matutina* **sp. n.** Mexico p. 576, TOWNSEND T.c.

Trichoduropsis guianensis **sp. n.** p 553, TOWNSEND T.c.

Trichotopteryx **gen. n.** p. 586 *Bigonichetini, tropica* **sp. n.** Peru p. 587, TOWNSEND T.c.

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Monanthia ? necopina **sp. n.** U.S. p. 420, DRAKE T.c.

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Calisius lativentris var. n. *nypelsi* p. 128, SCHOUTEDEN T.c.—*C. stappersi* **sp. n.** Congo p. 65, SCHOUTEDEN Rev. zool. afric. **7.**

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Neuroctenus zulucaffer **sp. n.**, BERGROTH Göteborg Vet. Handl. **16** p. 3 sep pag. 1914.

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REDUVIIDAE, NABIDAE.

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Androclus (*Dichraotropis*) *seyidiensis* pl. x fig. 45 p. 243, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

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Arbelopsis **gen. n.** p. 5 near *Arbela, simplicipes* **sp. n.** Formosa p. 6, POPPIUS Arch. Naturges. **80** A 8 1915.

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Baebius ruficollis **sp. n.** E. Africa p. 172 p. vi fig. 15, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Bagauda cavernicola **n. sp.** Assam p. 366, PAIVA Rec. Ind. Mus. **16.**—*B. tenebricola* pl. v fig. 7, p. 155 fig. 8, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

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Carcinomma simile fig. 15, *astrologus* fig. 16 p. 181, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Castra dolosa **sp. n.** Mekong p. 148, DISTANT Entom. **52.**

Cethera musiva fig. 14 p. 179, *kenyensis* pl. vi fig. 17 p. 180, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Cetheromma telescopus pl. vi fig. 18 p. 183, JEANNEL T.c.

Cleptria nitida, punctata, p. 212, *usambarae* p. 213, *picta* p. 214, *bonneviei* p. 215, **spp. n.** Africa, SCHOUTEDEN Rev. zool. Afric. **6.**

Cleptriola bayeri, togoensis, **spp. n.** Africa p. 216, SCHOUTEDEN T.c.—*C. nigrolutea* var. n. *discolor,* HORVÁTH p. 116 Ann. Mus. Hungar. **12** 1914.

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Cyclosandalus **subg. n.** vide *Glymmatophora.* Horvath '14

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Durganda pedestris, formidabilis, **spp. n.** Indo-China p. 245, DISTANT Entom. **52.**

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Ectrichodia suta **sp. n.** Zululand, BERGROTH Göteborg Vet. Handl. **16** 1914 p. 7 sep. pag.

Ectrychotes relatus **n. sp.** Assam p. 368, PAIVA Rec. Ind. Mus. **16.**—*E. tonkinensis* **sp. n.** p. 148, DISTANT Entom. **52.**

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Edoclina **gen. n.** *Reduviini* p. 211, type *fallax* **sp. n.** p. 212 pl. viii fig. 32, E. Africa, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Endochus erectus, campbelli, parvispinus, **spp. n.** India p. 76, DISTANT Ann. nat. Hist. **4.**

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Eriopreda rufa **sp. n.** E. Africa p. 192, *feai* pl. vii fig. 20 p. 192 fig. 19, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Glymmatophora (*Cyclosandalus* **subg.** n. p. 127) *crassipes* Madagascar p. 128, *aeneiceps* p. 129, *pellax* p. 131, *semirubra, ugandana,* p. 132, Africa **spp. n.**, *schoutedeni* n. n. for *splendens* Sch. p. 129, HORVÁTH Ann. Mus. Hungar. **12** 1914.—*G. swalei* p. 207, *dejoncki* p. 208, *sudanica* p. 209, *sheffieldi, loangwae,* p. 210, **spp. n.** Africa, SCHOUTEDEN Rev. zool. Afric. **6.**

Gorpis transvaalensis **sp. n.** p. 241, SCHOUTEDEN T.c.—*G. annulatus* **n. sp.** p. 370, PAIVA Rec. Ind. Mus. **16.**

Hadrocranella **gen. n.** p. 647 near *Calphurnia, imbellis* **sp. n.** New Guinea p. 648, HORVÁTH Ann. Mus. Hungar. **12** 1914.

Haematochares stricticollis pl. xii fig. 71 p. 297, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Haematoloecha bicoloripes, apicimacalata, picturata, p. 146, *obscurata, chapana, nigrorubra,* p. 147, **spp. n.** Indo-China, DISTANT Entom. **52.**

Harpactor (*Hypertolmus*) *alluaudi* pl. xii fig. 66 p. 280, (*Diphymus*) *seyidiensis* pl. xii fig. 67 p. 282, *bayoni* fig. 29 p. 282, *segmentarius* fig. 30 p. 283, *kavirondo* pl. xii fig. 68 p. 286, (*Harpiscus*) *tavetanus* pl. xii fig. 69 p. 289, var. n. *nyikanus* p. 290, (*Rhinocoris*) *castanescens* pl. xii fig. 70 p. 291, E. Africa, *alluaudi* pl. xii fig. 66 p. 280, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Hermillus geniculatus pl. ix fig. 39 p. 227, JEANNEL T.c.

Hoplomargasus **gen. n.**, *vicinus* **sp. n.** Madagascar, p. 143, and *Helonotus fasciatus* Sign., HORVÁTH Ann. Mus. Hungar. **12** 1914.

Ischnonyctes marmoratus **sp. n.** E. Africa p. 158, fig. 10; pl. v, fig. 9, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Isyndus modestus **sp. n.** India p. 77, DISTANT Ann. nat. Hist. **4.**—*I. lativentris* **sp. n.** Tonkin p. 211, DISTANT Entom. **52.**

Katanga etiennei p. 217, *centralis* p. 218, **spp. n.** Africa, SCHOUTEDEN Rev. zool. Afric. **6.**

Libyomendis vittata **sp. n.** Cameroons p. 116, HORVÁTH Ann. Mus. Hungar. **12** 1914.

Macrospongus prinsi **sp. n.** N. Guinea p. 229, pl. ix fig. 40, *ruficollis* pl. ix fig. 41, p. 230, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Maraenaspis bequaerti, paoliana, **spp. n.** Africa p. 211, SCHOUTEDEN Rev. zool. afric. **6.**—*M. problematica* pl. x fig. 53, p. 261, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**—*M. praecox, conviva,* p. 117, *coccinea* p. 118, **spp. n.** Africa, HORVÁTH Ann. Mus. Hungar. **12** 1914.

Margasus spectabilis p. 140, *chalcopterus, tibialis,* p. 141, *ventralis* p. 142, **spp. n.** Africa, HORVÁTH Ann. Mus. Hungar. **12** 1914.—*M. kilimanus* pl. xii fig. 72, p. 304, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Microvarus conradti pl. vii, fig. 21 p. 193, fig. 20, JEANNEL T.c.

Mimocleptria **gen. n.** p. 123 near *Cleptria, cinctella, parvula,* p. 124, Transvaal, *elegantula* Congo p. 125, *pilosa, procera,* p. 126 E. Africa, **spp. n.**, HORVÁTH Ann. Mus. Hungar. **12** 1914.

Myiophanes speluncarum **sp. n.** E. Africa, p. 153, fig. 7 pl. v, fig. 6, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Nabis assamensis **n. sp.** Assam p. 371, PAIVA Rec. Ind. Mus. **16.**

Neoklugia **gen. n.** p. 71 near *Oncocephalus, typica* **sp. n.** India p. 72, DISTANT Ann. nat. Hist. **4.**

Neothodelmus **gen. n.** p. 72, *typicus* **sp. n.** India p. 73, DISTANT T.c.

Neozirta **gen. n.** near *Zirta, orientalis* **sp. n.** Tonkin, DISTANT p. 147 Entom. **52.**

Ocrioëssa **gen. n.** p. 312 near *Oncocephalus, lobuliventris* **sp. n.** Guiana p. 313, BERGROTH Ann. Mus. Hungar. **16** 1918.

Oncocephalus funeralis **sp. n.** Indo-China p. 244, DISTANT Entom. **52.**—*O. pilosulus* pl. vi, fig. 14, p. 170, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Pachysandalus collaris pl. x fig. 51, *orientalis* pl. x fig. 52, p. 252, JEANNEL T.c.

Paralibavius **gen. n.**, *singularis* **sp. n.** Assam p. 368, PAIVA Rec. Ind. Mus. **16.**

Paramphibolus zanzibaricus pl. xii fig. 65, p. 278, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Parapanthous **gen. n.** near *Panthous, spinicollis* **sp. n.** Indo-China, p. 211, DISTANT Entom. **52.**

Paraplynus **gen. n.** *Reduviini* type *lugubris* Stål. C. Africa p. 213, pl. ix fig. 37, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Paredocla decorsei pl. vii, figs. 25–27 p. 204 figs. 25, 26; var. n. *chevalieri* p. 206, *pallipes* pl. viii fig. 28, p. 206 fig. 27, *abyssinica* pl. viii fig. 29, p. 207 fig. 28, JEANNEL T.c.

Pasiropsis major **sp. n.** India p. 73, DISTANT Ann. nat. Hist. **4.**

Petalocheirus vittiventris pl. vi, fig. 16, p. 175, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Phalantus natalensis **sp. n.**, BERGROTH Göteborg Vet. Handl. **16** 1914 p. 7 sep. pag.

Philodoxus **gen. n.** p. 135 for *Physorhynchus principalis* Dist., HORVÁTH Ann. Mus. Hungar. **12** 1914.

Phonergates (*Clopophora*) *vassei* sp. n. Mozambique p. 231 pl. ix fig. 42, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Phonolibes concinnus p. 136, *assimilis* p. 137, E. Africa, *obsoletus* Zambesi p. 138, **spp. n.**, HORVÁTH Ann. Mus. Hungar. **12** 1914.—*P. obsoletus* pl. xii fig. 64 p. 277, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Phorticus affinis, formosanus, **spp. n.** Formosa p. 3, POPPIUS Arch. Naturges. 80 A8 1915.—*P. varicolor* **sp. n.** India p. 79, DISTANT Ann. nat. Hist. **4.**

Phyja **gen. n.** *Euagorasaria, tricolor* **sp. n.** Tonkin, p. 211, DISTANT Entom. **52.**

Physorhynchus rodhaini p. 205, *roulingi* p. 206, *senegalensis* p. 207, **spp. n.** Africa, SCHOUTEDEN Rev. zool. afric. **6.**

Pirates conspurcatus var. n. *vittipennis,* HORVÁTH p. 115 Ann. Mus. Hungar. **12** 1914.—*P.* (*Cleptocoris*) *aurigans* pl. x fig. 49 p. 249, *ochripennis* pl. x fig. 50 p. 250, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Platymeris (s. str.) *kavirondo* pl. ix fig. 44, pl. 240, JEANNEL, T.c.

Ploiaria domestica, habits, SCHULZE p. 381 fig. S.B. Ges. naturf. Fr. Berlin **1919.**

Ploeariola tessellata **sp. n.** Natal, BERGROTH Göteborg Vet. Handl. **16** 1914 p. 8 sep. pag.—*P. natalensis* Natal p. 641, *sagax* India p. 642, *distinguenda* Ceylon, *froggatti* Sydney p. 643, *brachystigma* Japan p. 644, **spp. n.**, HORVÁTH Ann. Mus. Hungar. **12** 1914.—*P. pallida* **sp. n.** E. Africa p. 151 fig. 6 pl. v fig. 5, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Plynaspis **gen. n.** *Reduviini* type *flaveola* Fairm. p. 224, pl. ix fig. 38, JEANNEL T.c.

Polididus cruentus **sp. n.** E. Africa p 145, HORVÁTH Ann. Mus. Hungar. **12** 1914.

Polytoxus tropicus p. 160 pl. vi fig. 10, *vittatus* p. 161, pl. vi fig. 16, **spp. n.** E. Africa, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Recicolus lepturoides pl. ix, fig. 43 p. 234, JEANNEL T.c.

Reduviolus sauteri **sp. n.** Formosa p. 4, POPPIUS Arch. Naturges. **80**A 8 1915.

Reduvius tonkinensis **sp. n.** p. 244, DISTANT Entom. **52.**

Rhaphidosoma inermiceps, trituberculatum, simoni, decorsei, longispina, truncatum, didieri, occidentalis, bastardi pp. 263–271, figured pl. xi, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Rhiginia bimaculata, **sp. n.** Ecuador p. 59, BREDDIN Abh. Senckenb. Ges. **36** 1914.

Rhinocoris flavidorsum n. n. for *Harpactor flavinotum* Mats., HORVÁTH p. 660 Ann. Mus. Hungar. **12** 1914.

Santosia rasilis **sp. n.** Cameroons p. 115, HORVÁTH T.c.

Sastrapada (*Harpagochares*) *signata* fig. 13, *spinuliceps* fig. 12, p. 169, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Scadra castanea **n. sp.** Assam p. 367, PAIVA Rec. Ind. Mus. **16.**

Scoloponotus **gen. n.** near *Margasus, simulans* **sp. n.** Madagascar, HORVÁTH p. 144 Ann. Mus. Hungar. **12** 1914.

Sphedanolestes aurescens, aterrimus, **spp. n.** India p. 75, DISTANT Ann. nat. Hist. **4.**—*S. flaviventris, marginiventris,* p. 207, *femoralis, aterrimus,* p. 208, **spp. n.** Indo-China, DISTANT Entom. **52.** —*S. nanus* var. n. *pallidus* p. 295, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Sphedanovarus **gen. n.** *Reduviini* p. 189, type *camerunensis* Breddin fig. 17 pl. vii, fig. 19, JEANNEL T.c.

Stenolaemus laticeps Cairo p. 650, *papuensis* p. 651, **spp. n.**, HORVÁTH Ann. Mus. Hungar. **12** 1914.—*S. hirtipes* **sp. n.** India p. 71, DISTANT Ann. nat. Hist. **4.**

Sycanus elongatulus, ventralis, viduus, **spp. n.** Indo-China p. 209, DISTANT Entom. **52.**—*S.* ? *dubius* **n. sp.** Assam p. 369, PAIVA Rec. Ind. Mus. **16**

Thysanuchus **gen. n.** p. 311 for *Velinus pilipes* Fall., BERGROTH Ann. Mus. Hungar. **16** 1918.

Tiarodes rusticus **sp. n.** Tonkin p. 245, DISTANT Entom. **52.**

Tinna spinicollis **sp. n.** E. Africa p. 156 fig. 9 pl. v fig. 8, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**—*T. gracilis* **sp. n.** Natal, BERGROTH Göteborg Vet. Handl. **16** 1914 p. 10 sep. pag.

Triatomini trib. nov. *Acanthaspidinae* p. 177, JEANNEL Voy. Alluaud Ins. Hémipt. **3.**

Tribelocephala kilimana **sp. n.** E. Africa p. 164, pl. vi, fig. 12, JEANNEL T.c.

Trichedocla montana pl. viii fig. 30 p. 209, subsp. n. *kenyensis* p. 210, **sp. n.** pl. viii fig. 31 p. 211, East Africa, JEANNEL, T.c.

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Eurystylomorpha **gen. n.** p. 16, *crassicornis* **sp. n.** Formosa p. 17, Poppius T.c.

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Malatasta schenklingi **sp. n.** Formosa p. 21, POPPIUS Arch. Naturges. **80** A 8 1915.

Mandragora **gen. n.** p. 449 near *Physophoroptera*, *venefica* **sp. n.** Spanish Guinea p. 450 fig., SCHUMACHER S.B. Ges. naturf. Fr. Berlin **1917**.

Marshalliella orientalis **sp. n.** Formosa p. 69, POPPIUS Arch. Naturges. **80** A 8 1915.

Megacoelum oberthueri Maissour p. 27, *papuanum* p. 28, *celebense* p. 29, *tagalicum* with var. *bicolor* p. 30, *pallidicorne* p. 31, Philippines, **spp. n.**, POPPIUS Ann. Mus. Hungar. **13** 1915.—*M. clypeatum* p. 14, *minutum* p. 15, **spp. n.**, Formosa, POPPIUS Arch., Naturges. **80** A 8 1915.

Neoborus pubescens **sp. n.** New York p. 81, KNIGHT Bull. Brooklyn ent. Soc. **12** 1917.

Neolygus **subg. n.** vide *Lygus*. Knight 1917

Ochtherocapsus **gen. n.** p. 47, *marginiceps* **sp. n.** N. S. Wales p. 48, POPPIUS Ann. Mus. Hungar. **13** 1915.

Odoniella camerunensis **sp. n.** p. 451, SCHUMACHER S.B. Ges. naturf. Fr. Berlin **1917**.

Onomaus elegans **sp. n.** Assam p. 6, POPPIUS Ann. Mus. Hungar. **13** 1915.

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Orthotylus orientalis **sp. n.** Formosa p. 69, Poppius Arch. Naturges. **80** A 8 1915.

Pachypeltis corallinus **sp. n.** Formosa p. 55, Poppius T.c.

Pameridea roridulae fig., Schumacher p. 220 Zeitschr. wiss. Insbiol. **14.**

Pantilioforma **gen. n.** p. 447 near *Lycidocoris, impressopunctata* **sp. n.** Spanish Guinea p. 448, Schumacher S.B. Ges. naturf. Fr. Berlin **1917.**

Paracalocoris acceptus var. n. *marmoratus*, McAtee p. 247 Ent. News **30.**

Parthenicus aridus **sp. n.** New Mexico p. 113, Knight Bull. Brooklyn ent. Soc. **13** 1918.

Peltidolygus **gen. n.** near *Lygus, puncticollis* **sp. n.** Sikkim, Poppius p. 64 Ann. Mus. Hungar. **13** 1915.

Peritropis pusillus **sp. n.** Formosa p. 49, Poppius Arch. Naturges. **80** A 8 1915.

Phyllopidea **gen. n.** *Phylinae* type *Bolteria picta* Uhl., Knight p. 127 Bull. Brooklyn ent. Soc. **14.**

Phytocoris philippinensis, nigropunctatus, Philippines p. 8, *sinicus* Shanghai p. 9, **spp. n.**, Poppius Ann. Mus. Hungar. **13** 1915.

Phytocoropsis **gen. n.** p. 10 near *Phytocoris, annulipes* **sp. n.** Philippines p. 11, Poppius T.c. 1915

Piezocranum corvinum, female, Horváth p. 328 Ann. Mus. Hungar. **16** 1918.

Pilophoropsis **gen. n.** p. 249 near *Pilophorus, brachypterus* **sp. n.** Arizona p. 250, Poppius Ann. Soc. ent. Belgique **58** 1914.

Pilophorus heidemanni Am. bor. p. 240, *sumatranus* p. 241 Padang, *crassipes* p. 242, *americanus, buenoi*, p. 243, *brunneus* p. 244, *vicarius* p. 245, *exiguus* p. 246, Am. bor., *niger* Japan p. 247, *clavicornis* Am. bor. p. 248, **spp. n.**, Poppius T.c.—*P. formosanus, pullulus*, **spp. n.**, Formosa p. 64, *typicus* var. n. *obscuripes* p. 63, Poppius Arch. Naturges. **80** A 8 1915.

Platylygus intermedius **sp. n.** p. 16 pl. i f 2, *grandis* f. 3, *fuliginosus* f. 4, p. 17, **spp. n.**, Arizona, Knight Bull. Brooklyn ent. Soc. **13** 1918.

Porphyrocapsus **gen. n.** p. 50 near *Stenotus, lineatus* **sp. n.** Sydney p. 51, Poppius Ann. Mus. Hungar. **13** 1915.

Porphyrodema nigritarse p. 1, *rhinoceros* p. 2, **spp. n.**, N. S. Wales, Poppius T.c.

Proboscidocoris reuteri Philippines p. 85, *scutellaris* p. 86, *neoguineanus* p. 87, New Guinea, **spp. n.**, Poppius T.c.—*P. taivanus* **sp. n.** Formosa p. 42, Poppius Arch. Naturges. **80** A 8 1915.

Prodromopsis basalis **sp. n.** Formosa p. 56, Poppius T.c.

Pseudeurystylus **gen. n.** p. 48 near *Eurystylus, clavicornis* **sp. n.** Sydney p. 49, Poppius Ann. Mus. Hungar. **13** 1915.

Pycnofurius pallidiscutum **sp. n.** Formosa p. 58, Poppius Arch. Naturges. **80** A 8 1915.

Rhinocylapidius **gen. n.** p. 48 near *Rhinocylapus, velocipedoides* **sp. n.** Formosa p. 49, Poppius T.c. 1915

Rhodolygus **gen. n.** p. 67, *obscuritarsis* **sp. n.** Sydney p. 68, Poppius Ann. Mus. Hungar. **13** 1915.

Sericophanes parviceps Cuba p. 259, *heidemanni* New York p. 260, **spp. n.**, Poppius Ann. Soc. ent. Belgique **58** 1914.—*S. triangularis* p. 81, *transversus* p. 82, **spp. n.** New Mexico, Knight Bull. Brooklyn ent. Soc. **13** 1918.

Stenodema longicolle **sp. n.** Formosa p. 43, Poppius Arch. Naturges. **80** A 8 1915.

Stenotus stramineus Pondichery, *brevicollis*, p. 52, *bivittatus* p. 53, *clypealis* p. 54, New Guinea, **spp. n.**, Poppius Ann. Mus. Hungar. **13** 1915.—*S. insularis* p. 17, *longiceps* p. 18, *pygmaeus* p. 19, **spp. n.** Formosa, Poppius Arch. Naturges. **80** A 8 1915.

Stethoconus japonicus **sp. n.** Japan p. 344, Schumacher S. B. Ges. naturf. Fr. Berlin **1916.**

Strongylocoris stygica, early stages, Leonard p. 178 pl. xiv Canad. Ent. **51.**

Taivaniella **gen. n.** p. 57 near *Lepidolon, fulvigenis* **sp. n.** Formosa p. 58, Poppius Arch. Naturges. **80** A 8 1915.

Thania gen. n. near *Lygus* p. 62, *crassicornis* sp. n. Tonkin p. 63, POPPIUS Ann. Mus. Hungar. **13** 1915.

Tinginotopsis gen. n. p. 23, *dromedarius* sp. n. Formosa p. 24, POPPIUS Arch. Naturges. **80** A 8 1915.—*T. camelus* sp. n. New Guinea p. 59, POPPIUS Ann. Mus. Hungar. **13** 1915.

Tinginotum papuanum p. 56, *gracilicorne* Philippines p. 57, *cretaceum* New Guinea p. 58, spp. n., POPPIUS Ann. Mus. Hungar. **13** 1915.—*T. formosanum* sp. n. Formosa p. 22, POPPIUS Arch. Naturges. **80** A 8 1915.

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Forficula auricularia, flight, p. 37 RICHTER, p. 74 TASCHENBERG Ent. Mitt. **8.**

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Aglaopteryx lita **sp. n.** Panama p. 33 pl. ii figs. 14 & 15, HEBARD Mem. Amer. Ent. Soc. **4.**

Anaplecta lateralis p. 15 pl. ii figs. 3 & 4; *A. asema* p. 16 fig. 5, *sordida* p. 18 fig. 6, *gemma* p. 19 fig. 7, *hemiscotia* p. 20 fig. 8, *cabimae* p. 24 fig. 9, pl. ii, **spp. n.** Panama, HEBARD T.c.

Andreia gatunae **sp. n.** Panama p. 93 pl. v fig. 6, HEBARD T.c.

Antitheton **gen. n.** p. 303 *Pseudomopidae, iniquiungues* **sp. n.** Centr. America p. 304 figs., HEBARD Tr. Amer. ent. Soc. **45.**

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Blattella germanica p. 68 pl. v fig. 16, HEBARD Mem. Amer. Ent. Soc. **4.**

Buboblatta **gen. n.** *Corydiinae* p. 123, type *Latindia armata* Caudell, pl vi figs 6–8, HEBARD T.c.

Capucinella **gen. n.** *Panchlorinae* p. 109, *delicatula* **sp. n.** Panama p. 111, pl. vi figs. 2 & 3, HEBARD T.c.

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Chorisoneura panamae p. 127 figs. 9 & 10, *fuscipennis* p. 131 fig. 11, *cabimae* p. 134 figs. 14 & 15, *specilliger* p. 135 figs. 16–19, *gemmicula* p. 138 figs. 20–22, pl. vi, **spp. n.** Panama, HEBARD Mem. Ent. Soc. **4.**

Chromatonotus **gen. n.** *Pseudomopinae* p. 44, *heterus* p. 46 p. iii fig. 5, *lamprus* (type) p. 47 pl. iii figs. 6 & 7, **spp. n.** Panama, HEBARD T.c.

Colapteroblatta **gen. n.** p. 120 near *Poroblatta, compsa* **sp. n.** Colombia p. 121 pl. xix figs. 1 & 2, HEBARD Tr. amer. ent. Soc. **45.**

Dendroblatta sobrina p. 31, pl. ii figs. 12 & 13, HEBARD Mem. Amer. Ent. Soc. **4.**

Ectobius lapponicus, Adelung's subspp., BURR p. 8 Ent. Rec. **31.**

Epilampra shelfordi **sp. n.** Colombia p. 106 pl. xviii f. 1, HEBARD Tr. amer. ent. soc. **45.**—*E. maya*, p. 97 pl. v fig. 7, HEBARD Mem. Amer. Ent. Soc., **4.**

Eublaberus **gen. n.** *Blaberinae* p. 116, type *biolleyi* Rehn p. 117, HEBARD T.c.

Eudromiella **gen. n.** *Pseudomopinae* p. 34, *bicolorata* **sp. n.** Panama p. 35, pl. ii figs. 16–20, HEBARD T.c.

Euphyllodromia decastigmata **sp. n.** Panama p. 83 pl. iv figs. 18–20, *angustata* fig. 17, HEBARD T.c.

Eurycotis pluto **sp. n.** Panama p. 101 pl. v f. 13, HEBARD T.c.

Euthlastoblatta compsa **sp. n.** Panama p. 28 pl. ii figs. 10 & 11, HEBARD T.c.

Holocompsa panamae **sp. n.** p. 118, pl. vi fig. 4, HEBARD T.c.

Hormetica apolinari **sp. n.** Colombia p. 128 pl. xviii f. 4 & xix f. 7, HEBARD Tr. amer. ent. Soc. **45.**

Hyporhicnoda **gen. n.** *Epilamprinae* p. 98, type *reflexa* S. and Z. p. 100, pl. v figs. 8 & 9, HEBARD Mem. Amer. Ent. Soc. **4.**

Ischnoptera phuriramosa **sp. n.** French Guinea p. 144, KARNY Zool. Jahrb. Jena Abt. System. **40** 1915.—*I. nox* p. 68 f. 7, *gatunae* p. 72 f. 11, *mirella* p. 75 f. 13, *panamae* p. 77 figs. 14 & 15, **spp. n.** Panama, *rufa rufa* p. 70 fig. 8, *r. occidentalis* p. 71 figs. 9 & 10, *inca* p. 75 f. 12, pl. iv, HEBARD Mem. Amer. Ent. Soc. **4.**—*I. apolinari* p. 102 pl. xvi figs. 6 & 7, *colombiae* p. 105 figs. 8 & 10, **spp. n.** Colombia, HEBARD Tr. amer. ent. Soc. **45.**

Lamproblatta **gen. n.** p. 108 near *Eurycotis*, *albipalpus* **sp. n.** Panama p. 109 pl. xvii figs. 7–9, HEBARD T.c.—*L. albipalpus* p. 100 pl. v figs. 10–12, HEBARD Mem. Amer. Ent. Soc. **4.**

Latiblatella inornata p. 37 fig. 21, *augustifrons* p. 39 fig. 22 pl. ii, **spp. n.** Panama, HEBARD T.c.

Lissoblatta **gen. n.** *Ectobiinae* p. 10, type *fulgida* Saussure p. 11 pl. ii figs. 1 & 2, HEBARD T.c.

Litopeltis **gen. n.** *Perisphaerinae* p. 140, type *Calolampra bispinosa* Sauss. p. 141, pl. vi fig. 23, HEBARD T.c.

Lophometopum **gen. n.** *Pseudomopinae* p. 65, *leptum* **sp. n.** Panama p. 66, pl. iv. figs 1–6, HEBARD T.c.

Macrophyllodromia splendida **sp. n.** Panama p. 42 pl. iii figs. 1–4, HEBARD T.c.

Melestora micra **sp. n.** Panama p. 121 pl. vi fig. 5, HEBARD T.c.

Neoblattella acanthastylata p. 54, figs. 10 & 11, *panamae* p. 56 fig. 12, *impar* p. 58 fig. 13, *chagrensis* p. 61 fig. 14, **spp. n.** Panama, *nahua* p. 64 fig. 15, *fraterna* p. 65 fig. 16, pl. iii, HEBARD T.c.—*N. carrikeri* **sp. n.** Colombia p. 99 pl. xvii figs. 3–6, HEBARD Tr. amer. ent. Soc. **45.**

Nyctibora noctivaga, p. 88 pl. v f. 4, HEBARD Mem. Amer. Ent. Soc. **4.**

Panchlora colombiae **sp. n.** p. 115 pl. xviii f. 3, HEBARD Tr. amer. ent. Soc. **45.**

Panchlora minor, p. 108 pl. v fig. 15, HEBARD Mem. Amer. Ent. Soc. **4.**

Paratropes pinoganae **sp. n.** Panama p. 89 pl. v f. 5, HEBARD T.c.

Pelmatosilpha micra **sp. n.** Colombia p. 112 pl. xviii f. 2, HEBARD Tr. amer. ent. Soc. **45.**

Phortioeca phoraspoides p. 109 pl. vi fig. 1, HEBARD Mem. Amer. Ent. Soc. **4.**

Platylestes **gen. n.** p. 97 *Pseudomopinae*, *colombiae* **sp. n.** p. 98 pl. xvii figs. 1 & 2, HEBARD Tr. amer. ent. Soc. **45.**

Polyphaga occidentalis nigrescens subsp. n. Marocco p. 621 figs., CHOPARD Bull. Mus. Paris **25.**

Poroblatta **gen. n.** p. 123 *Perisphaerinae*, *apatela* p. 124 pl. xix f. 3, *cylindrica* p. 125 f. 4, **spp. n.** Colombia, HEBARD Tr. Amer. ent. Soc. **45.**

Pseudomops gloriosa **sp. n.** Panama p. 86 pl. v figs. 1–3, HEBARD Mem. Amer. Ent. Soc. **4.**

Pycnosceloides aporus p. 104 pl. v fig. 14, HEBARD T.c.

Pyenosceloides **gen. n.** near *Pycnoscelus*, *aporus* **sp. n.** Mexico and U.S., HEBARD p. 300 fig. Tr. amer. ent. Soc. **45.**

Pycnoscelus surinamensis, male, DAVIS p. 109 J. New York ent. Soc. **27.**

Rhytidometopum megalopterum **sp. n.** Panama p. 50, pl. iii figs. 8 & 9, HEBARD Mem. Amer. Ent. Soc. **4.**

†*Samaroblatta* **gen. n.** p. 373, *reticulata* p. 374 fig., *triassica* p. 375 fig., *jonesi* p. 376 fig., *blabelloides* p. 377 fig., *intercalata* p. 379 fig., **spp. n.** mesozoic Queensland, TILLYARD P. Linn. Soc. N.S.W. **44.**

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XIII. PROCHORDATA

INCLUDING

ENTEROPNEUSTA AND PTEROBRANCHIA

BY

C. TATE REGAN, F.R.S.

CONTENTS

PAGE

I. TITLES 2

II. SUBJECT INDEX :—

Structure 2

Distribution 2

III. SYSTEMATIC INDEX :—

Tunicata 2

Cephalochordata (vacant).

Enteropneusta and Pterobranchia (vacant).

I.—TITLES.

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II.—SUBJECT INDEX.

STRUCTURE.

General: **Hartmeyer 2. Lohmann 3. Metcalf 5. Michaelsen 6. Sluiter 7. Stiasny 8.**

DISTRIBUTION.

Atlantic and Indo-Pacific **Lohmann 3.** West Indies **Sluiter 7.** West Africa **Michaelsen 6; Sluiter 7.** Indo-Australian Archipelago **Sluiter 7; Stiasny 8.** Philippines **Metcalf 4, 5.** Australia **Hartmeyer 2.**

III.—SYSTEMATIC INDEX.

TUNICATA.

Of Elbeuf Museum, COULON **1.**

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Polyandrocarpa robusta **sp. n.** Java-See., SLUITER t.c. p. 6.

Polycarpa van-kampeni **sp. n.** Java, SLUITER t.c. p. 3.—*P. aurata* **f.** *clavata* **f. n.** p. 40, *intermedia* p. 69 pl. 2 figs. 32-36, *polyphlebodes* p. 74 pl. 2 figs. 37-42 **spp. n.** Australia, HARTMEYER Stockholm Vet.-Ak. Handl. **60** No. 4.—*P. goreensis* **sp. n.** W. Africa, MICHAELSEN Beitr. Meeresfauna Westafr. p. 398 pl. xvi fig. 1.

Polycitor schultzei dualana p. 438 pl. xvii fig. 12A, *paessleri intermedia* p. 449 pl. xvii fig. 16 **varr. n.**—*P.* (*Eudistoma*) *angolanus* p. 452 pl. xix figs. 54-55 **sp. n.** W. Africa, MICHAELSEN t.c.—*P. glabrum* p. 9 Java *giganteus* p. 10 West-Indies, **spp. n.**, SLUITER Bydr. Dierk Amsterdam **21.**

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XIV. VERTEBRATA

(GENERAL)

i.e., complementary to Mammalia, Aves, Reptilia, and Pisces.

BY

D. SHARP.

CONTENTS

PAGE

I. TITLES 2

II. SUBJECT INDEX :—

General = 5203 2

Structure = 5207 2

Development = 5215 2

Aetiology, Variation and Evolution = 5223 2

Geography = 5227 2

I.—TITLES.

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II.—SUBJECT INDEX.

GENERAL. **5203**

Mehl, 6.

STRUCTURE. **5207**

Allis, 1; Ariens Kappers, 2; Delsman, 3a; Franz, 3b; Moodie, 7.

DEVELOPMENT. **5215**

Goodrich, 3c; Kerr, 5.

AETIOLOGY. **5223**

Jehu, 4.

GEOGRAPHY. **5227**

South America: **Beebe, 3.**

XV. PISCES

BY

C. TATE REGAN, F.R.S.

CONTENTS

PAGE

I. Titles 3

II. Subject Index 8

Economics 9

Structure 9

Physiology 9

Development 9

Ethology 9

Variation and Evolution 9

Distribution 9

Marine 9

Fresh Water 10

Fossil 10

III. Systematic 10

General Works 10

Marsipobranchii 10

Selachii 10

Euselachii 10

Pleurotremata 10

Hypotremata 10

Holocephali 10

PAGE

Pisces 11
Palaeopterygii 11
Neopterygii 11
Incertae sedis 11
Protospondyli 11
Ginglymodi 11
Isospondyli 11
Ostariophysi 12
Apodes 14
Haplomi 14
Microcpyrini 14
Synentognathi 14
Anacanthini 15
Solenichthyes 15
Percomorphi 15
Scleroparei 17
Heterosomata 17
Plectognathi 17
Xenopterygii 18
Pediculati 18
Opisthomi 18
Rhipidistia 18

Ostracodermi 18

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II.—SUBJECT INDEX.

ECONOMICS.

General: **Green, 44; Herdman, 47; Hjort, 49; Johansen and Løfting, 61; Johansen and Smith, 62; Meek, 93; Roughley, 119; Smith, 125; Thompson, 129.**

Pisciculture, Carp; **Meugniot et Hirsch, 95.**

Food: **Jensen, 58.**

Eggs and larvae: **Dannevig, 26.**

Investigations on — Herring; **Bjerkan, 14, 15; Huntsman, 56; Johansen, 60; Lea, 79; Savage, 122:** Pike, **Kendall, 75:** Trout, **Godby, 41;** Sole; **Mohr, 96.**

STRUCTURE.

Tegumentary System.

Lips; **Allis, 5:** Teeth; **Alceste, 3; Carter, 23; Mummery, 97; Woodward, 136.**

Nervous System.

Beccari, 11; Holmgren, 51; Horst, 52; Purser, 115; Thomson, 131; Wiman, 133.

Alimentary System.

Alimentary canal; **Neumayer, 98.**

Respiratory System.

Gills; **Bovien, 22.**

Myology.

Adams, 1; Shann, 124.

Osteology.

Allis, 4, 6; Goodrich, 42; Hubbs, 53; Joseph, 74; Kindred, 77.

Excretory System.

Joseph, 74.

Reproductive System.

Turner, 132.

PHYSIOLOGY.

Mechanism of flight; **Ahlborn, 2.**

Function of otoliths; **Benjamin, 12.**

Reactions to light; **Drzewina et Bohn, 30.**

DEVELOPMENT.

Eggs and larvae; **Dannevig, 26; Grassi, 43; Lebour, 82, 83; Petersen, 112.**

Embryos; **Laguesse, 78; Southwell and Prashad, 126**

Organogeny; gastric glands; **Ringoen, 118:** teeth; **Carter, 23; Mummery, 97.**

Regeneration; **Berzolari, 13; Delphy, 28.**

ETHOLOGY.

Life history of Cyprinodonts; **Hildebrand, 48.**

Habits of *Esox;* **Kendall, 75.**

Carp in Madagascar; **Legendre, 84.**

Coloration of Salmon; **Roule, 121.**

Food; **Annandale, 8; Jensen, 58; Lebour, 80, 81.**

Breeding; **Gilchrist and Hunter, 40; Southwell and Prashad, 126; Thompson and Thompson, 130.**

VARIATION AND EVOLUTION.

Evolution; **Boulenger, 20.**

Heredity and Variation; **Schmidt, 123.**

Teratology; **Delphy, 28.**

DISTRIBUTION.

(a) MARINE.

Arctic Zone.

Spitzbergen; **Hofsten, 50.**

Sub-arctic and North Temperate zones.

Europe and Mediterranean; **Delphy, 27; Jespersen and Täning, 59; Johansen and Løfting, 61; Logano Rey, 89; Maire, 90; Roule, 120:** N. America (Atlantic); **Fowler, 33, 38, 39; Hjort, 49:** N. America (Pacific); **Bean and Weed, 10; Kincaid, 76; Starks, 127:** Japan; **Tanaka, 128.**

Tropical Zone.

W. Africa; **Fowler, 32; Metzelaar, 94; Pellegrin, 111:** Antillean Region; **Fowler, 32, 37; Jordan, 70; Metzelaar, 94:** Natal; **Regan, 117:** Australia; **McCulloch and Ogilby, 92.**

South Temperate Zone.

Australia; **McCulloch, 91; McCulloch and Ogilby, 92; Roughley, 119.**

(b) Freshwater.

Palaearctic.

Europe; **Lonnberg, 88; Lozano Rey, 89:** Persia; **Annandale, 9:** Formosa; **Jordan and Oshima, 73; Oshima, 101.**

Nearctic.

Eigenmann, 31; Fowler, 33, 34, 38, 39; Harper and Nichols, 45; Hubbs, 54; Kendall, 75.

Neotropical.

S. America; **Driver, 29; Fowler, 36; Nichols, 99, 100.**

Ethiopian.

Africa; **Boulenger, 16–21; Fowler, 32; Pellegrin, 103–105, 107–110; Popta, 113:** Madagascar; **Pellegrin, 106.**

Indian.

Continent; **Annandale, 8, 9; Chaudhuri, 24; Prashad, 114:** Archipelago; **Oye, 102.**

Australian.

Australia; **McCulloch and Ogilby, 92.**

(c) Fossil.

Devonian; **Jaekel, 57; Woodward, 135:** Carboniferous; **Woodward, 136:** Jurassic; **Leriche, 85; Woodward, 134:** Cretaceous; **Cockerell, 25; Jordan, 67:** Tertiary; **Jordan, 63, 69:** Eocene; **Leriche, 86:** Miocene; **Jordan and Gilbert, 71; Llueca, 87:** Pliocene; **Jordan and Gilbert, 72:** Pleistocene; **Hay, 46.**

III.—SYSTEMATIC.

GENERAL.

The genera of fishes, Jordan **64, 65.**

MARSIPOBRANCHII.

Myxine brain, Holmgren **51.**

SELACHII.

EUSELACHII.

PLEUROTREMATA

Odontaspididae.

Of Miocene of Mallorca, Llueca **87.**

Carchariidae.

Of Miocene of Mallorca, Llueca **87.**

Triakis beali **sp. n.** Miocene, California, Jordan and Gilbert Stanford Univ. Publi. **1919** p. 20.

Orectolobidae.

Chiloscyllium griseum egg-case, Southwell and Prashad **126.**

Cestraciontidae.

†*Wodnika ocoyae* **sp. n.** Miocene, California, Jordan and Gilbert Stanford Univ. Publ. **1919** p. 19 pl. vii fig. 8.

Petalodontidae.

†*Climaxodus wisei* **sp. n.**, dentition Woodward Q. J. Geol. Soc. **75** p. 4 pl. i.

Squalidae.

Acanthias brain, Purser **115.**

Spinax brain, Thomson **131.**

HYPOTREMATA.

Torpedinidae.

Torpedo mackayana **sp. n.** W. Africa, Metzelaar Trop. Atl. Visschen p. 197. —*T. fairchildi*, McCulloch **91.**

Rhinobatidae.

Rhinobatus columnae embryos, Southwell and Prashad **126.**

Tarsistes **gen. n.** *philippii* **sp. n.** Chile, Jordan Proc. Ac. Philad. **70** p. 344.

Trygonidae.

Embryos, Southwell and Prashad **126.**

Myliobatidae.

Of Miocene of Mallorca, Llueca **87.**

Embryos, Southwell and Prashad **126.**

HOLOCEPHALI.

Fossil egg-cases, Leriche **85.**

PISCES.

PALAEOPTERYGII.

†BELONORHYNCHIDAE.

†*Saurichthys mougeoti*, ANDERSSON-STENSIO **7**.

NEOPTERYGII.

INCERTAE SEDIS.

†*Rogenites* **gen. n.** type *Rogenio powersi*, JORDAN Stanford Univ. Publ. **1919** p. 8.

†*Rogenio vanclevei* **sp. n.** Miocene California, JORDAN and GILBERT Stanford Univ. Publ. **1919** p. 24 pl. xxxi fig. 3.

†*Eritima evides* **sp. n.** Miocene, California, JORDAN and GILBERT t.c. p. 40 pl. xxiii fig. 1.

†*Oxymandias* **gen. n,** *gilberti*, **sp. n.** Miocene, California, JORDAN and GILBERT t.c. p. 43 pl. xxii.

†*Sebastavus* **gen. n.** *vertebralis* **sp. n.** Miocene, California, JORDAN and GILBERT t.c. p. 50 pl. xxxi fig. 1.

†*Hayia* **gen. n.** *daulica* **sp. n.** Miocene, California, JORDAN and GILBERT t.c. p. 55 pl. xxii fig. 2.

†*Diatomoeca* **gen. n.** *zatima* **sp. n.** Miocene, California, JORDAN and GILBERT t.c. p. 58 pl. xxiii fig. 3.

†*Emmachaere* **gen. n.** *rhachites* **sp. n.** Miocene, California, JORDAN and GILBERT t.c. p. 59 pl xxviii fig 2

†*Ectasis* **gen. n.** *proriger* **sp. n.** Pliocene, California, JORDAN and GILBERT t.c. p. 62 pl. xxii.

The following are based on remains of fishes, chiefly scales, from the Cretaceous of N. America, by COCKERELL **25** :—

†*Petalolepis fibrillatus* **sp. n.**

†*Cycloides incertus* **sp. n.**

†*Holcolepis pulchellus, deilcatus, transversus, obliquus*, **spp. n.**

†*Helmintholepis* **gen. n.** *vermiculatus* **sp. n.**

†*Chicolepis* **gen. n.** *punctatus* **sp. n.**

†*Hypsodon radiatulus, granulosus*, **sp. n.**

Pomolobus chicoensis **sp. n.**

†*Leucichthyops* **gen. n.** *vagans* **sp. n.**

†*Cyclolepis stendinus* **sp. n.**

†*Erythrinolepis* **gen. n.** *mowriensis, chicoensis*, **spp. n.**

†*Halecodon* **gen. n.** *denticulatus* **sp. n.**

†*Echidnocephalus americanus, pacificus* **spp. n.**

†*Hemilampronites hesperius* **sp. n.**

†*Centrarchites* **gen. n.** *coloradensis* **sp. n.**

PROTOSPONDYLI.

†EUGNATHIDAE

†*Ainia* **gen. n.** = *Callopterus* praeocc, JORDAN Proc. Ac. Philad. **70** p. 344.

AMIIDAE.

†*Urocles* **gen. n.** = *Megalurus* praeocc, JORDAN Proc. Ac. Philad. **70** p. 343.

†ASPIDORHYNCHIDAE.

†*Vinctifer* **gen. n.** type *Belonostomus comptoni*, JORDAN Proc. Acad. Philadelphia **71** pl. 210.

GINGLYMODI.

Atractosteus lapidosus **sp. n.** Pleistocene of Florida, HAY Proc. U.S. Nat. Mus. **56** p. 110 pls. xxvi fig. 4 xxviii fig. 8.

Lepidosteus chondrocranium, ALLIS **4**.

ISOSPONDYLI.

†*Rhomurus* **gen. n.** *fulcratus* **sp. n.** Soledad, California, JORDAN Stanford Univ. Publ. **1919** p. 9 pls. iv figs. 3 4 v fig. 1.

†PHOLIDOPHORIDAE.

†*Ganolytes* **gen. n.** *cameo* **sp. n.** Soledad, California, JORDAN Stanford Univ. Publ. **1919** p. 6 pls. ii fig. 3 iv figs. 1 & 2.—*G. clepsydra* **sp. n.** Miocene, California, JORDAN and GILBERT t.c. p. 23 pl. xi fig. 1.

†*Pleuropholis formosa* **sp. n.** Purbeck Beds, WOODWARD Monogr. Palaeont. Soc. **1919** p. 115 figs.

†Leptolepidae.

†*Pachythrissops* **gen. n.** *laevis* **sp. n.** Purbeck Beds, Woodward Monogr. Palaeont. Soc. **1919** p. 128 figs.

†*Thrissops curtus* p. 137 pl. xxvi fig. 1, *mollossus* p. 138 pl. xxvi fig. 2 **spp. n.** Purbeck Beds, Woodward t.c.

Elopidae.

†*Ennelichthys* **gen. n.** *derbyi* **sp. n.** Cretaceous, Brazil, Jordan Proc. Acad. Philadelphia **71** p. 208.

†*Brannerion* **gen. n.** type *Calamopleurus vestitus*, Jordan t.c. p. 209.

Clupeidae.

Clupea hadleyi **sp. n.** Miocene of California, Jordan and Gilbert Stanford Univ. Publ. **1919** p. 29 pl. xiii.—*Clupea harengus*, Bjerkan **14, 15**; Huntsman **56**; Johansen **60**; Lea **79**; Meek **93**; Savage **122.**

Sardina neophilchardus, McCulloch **91.**

†*Iquius* **gen. n.** *nipponicus*, **sp. n.** Tertiary, Japan, Jordan Proc. Calif. Acad. **9** p. 271 pl. xx.

†*Xyne* **gen. n.** *grex* **sp. n.** Miocene, California, Jordan and Gilbert Stanford Univ. Publ. **1919** p. 25 pls. ix fig. 1 x fig. 2 xi figs. 2 3.

†*Alisea* **gen. n.** *grandis* **sp. n.** Miocene, California, Jordan and Gilbert t.c. p. 28 pl. xvii fig. 3.

†*Azalois* **gen. n.** *angelensis* **sp. n.** Miocene, California, Jordan and Gilbert t.c. p. 32 pl. xv. fig. 2.

†*Ellima elmodenae* p. 26 pl. xii fig. 1 *barbarae* p. 27 pl. ix fig. 3 **spp. n.** Miocene, California, Jordan and Gilbert t.c.

†*Ellimichthys* **gen. n.** type *Ellima longicostatum*, Jordan and Gilbert t.c. p. 27.

†*Smithites* **gen. n.** *elegans* **sp. n.** Miocene, California, Jordan and Gilbert t.c. p. 30 pl. xxix fig. 3.

†*Lygisma* **gen. n.** *tenax* **sp. n.** Miocene, California, Jordan and Gilbert t.c. p. 33 pls. viii fig. 2 xiv fig. 1.

†*Quaesita* **gen n.** *quisquilia* **sp. n.** Miocene, California, Jordan and Gilbert t.c. p. 31 pls. viii fig. 3 x fig 2 xvii fig. 1.

Salmonidae.

Salmo formosanus **sp. n.** Formosa, Jordan and Oshima Proc. Acad. Philad. **1919** p. 122 fig.—*S. trutta* growth in New Zealand, Godby **41.**

Coregonus preblei **sp. n.** R. Tazin, N.W. Canada, Harper and Nichols Bull. Amer. Mus. **41** p. 266 pl. xv fig. 2.

Leucichthys entomophagus p. 267 *athabascae, macrognathus* p. 269, **spp. n.** N.W. Canada, Harper and Nichols t.c.

Irillion **gen n.** type *Coregonus oregonius*, Jordan Proc. Ac. Philad. **70** p. 342.

Osmeridae.

Eperlanio **gen. n.** type *Osmerus albatrossis*, Jordan Proc. Ac. Philad. **70** p. 341.

Sternoptychiidae.

Diplohos minutus **sp. n.** N. Atlantic, Jespersen and Täning Nath. Medd. **70** p. 224 fig. 15.

Margrethia **gen. n.** *obtusirostra* **sp. n.** Cadiz Bay, Jespersen and Täning t.c. p. 222 pl. xvii figs. 11–12.

Vinciguerria sanzoi **sp. n.** N. Atlantic, Jepsersen and Täning t.c. p. 218 pl. xvii figs. 2 5.

Notopteridae.

Notopterus chitala eggs, larvae, Southwell and Prashad **126.**

Mormyridae.

Mormyrus goheeni **sp. n.** W. Africa, Fowler Proc. U.S. Nat. Mus. **56** p. 234 fig.

Gnathonemus brevicaudatus p. 206, *baudoni* p. 207 **spp. n.** Gribingui, Pellegrin Bull. Soc. Zool. **44.**

OSTARIOPHYSI.

Citharinidae.

Citharinus distichodoides **sp. n.** Gribingui, Pellegrin Bull. Soc. Zool. **44** p. 208.

CYPRINIDAE.

Aristichthys **gen. n.** type *Hypophthalmichthy nobilis*, OSHIMA Ann. Carnegie Mus. **12** p. 246.

Culter askii **sp. n.** Formosa, OSHIMA t.c. p. 250 pl. lii fig. 1.

Cultriculus **gen. n.** type *Hemiculterkneri*, OSHIMA t.c. p. 252.

Raiamas **gen. n.** = *Bola* Gunth. *non* Hamilt, JORDAN Proc. Ac. Philad. **70** p. 344.

Extrarius **gen. n.** type *Hybopsis tetranemus*, JORDAN t.c. p. 342.

Opsopoeodus borealis **sp. n.** L Athabaska, HARPER and NICHOLS Bull Amer. Mus. **41** p. 266.

Phosciscus **gen. n.** p. 225, *kikuchii* **sp. n.** p. 226 pl. li figs. 3 Formosa, OSHIMA Ann. Carnegie Mus. **12.**

Cyprinus carpio in Madagascar, LEGENDRE **84**; races, culture, MEUGNIOT et HIRSCH **95.**

Semiplotus cirrhosus **sp. n.** Burma, CHAUDHURI Rec. Ind. Mus. **16** p. 280.

Labeo curriei **sp. n.** W. Africa, FOWLER Proc. U.S. Nat. Mus. **56** p. 236 fig.—*L. dhonti* **sp. n.** Lukuga, BOULENGER P.Z.S. **1919** p. 399 fig.—*L. tibestii* **sp. n.** Tibesti, PELLEGRIN Bull. Soc. Zool France **44** p. 326.—*L. jordani* **sp. n.** Formosa, OSHIMA Ann. Carnegie Mus **12** p. 204 pl. xlix fig. 3.

Labeobarbus distribution in Africa, BOULENGER **21.**

Barbus euchilus p. 400 fig. *miochilus* p. 401 **spp. n.** Lukuga, BOULENGER P.Z.S. **1919.**—*B. uellensis* **sp. n.** Congo, BOULENGER Rev. Zool. Afr. **7** p. 158.—*B. foureaui* p. 209 *gribinguensis* p 210 Gribingui, *pallaryi* p. 323 *magniatlantis* p. 324 Morocco, *manicensis* p. 398 Mozambique **spp. n.**, PELLEGRIN Bull. Soc. Zool. France **44.**

Puntius snyderi **sp. n.** Formosa, OSHIMA Ann. Carnegie Mus. **12** p. 216 pl. l fig. 2.

Spinibarbus **gen. n.** p. 217 *hollandi* **sp. n.** p. 218 pls. l fig. 3 li fig. 1 Formosa, OSHIMA t.c.

Acrossocheilus **gen. n.** type *Gymnostomus formosanus*, OSHIMA t.c. p. 206.

Scaphestes **gen. n.** p. 208 *tamusiensis* **sp. n.** p. 209 pl. l fig. 1 Formosa, OSHIMA t.c.

Discognathus synopsis p. 129, *graveleyi* **sp. n.** India p. 133, ANNANDALE Rec. Ind. Mus. **16.**—*Discognathus*, Indian and Persian spp., ANNANDALE Rec. Ind. Mus. **18** pp. 65-78 pls. ix–xi.—*D. adiscus* p. 68 pls. x fig. 2, xi fig. 1 Seistan, *phryne* p. 70 pls. x fig. 3, xi fig. 2, Baluchistan, *elegans* p. 76 pls. ix fig. 4, xi fig. 5 India **spp. n.**, ANNANDALE t.c.—*D. Kangrae* **sp. n.** W. Himalayas, PRASHAD Rec. Ind. Mus. **16** p. 163.

Psilorhynchus tentaculatus **sp. n.** India, ANNANDALE Rec. Ind. Mus. **16** p. 128.

Gnathopogon iijimae **sp. n.** Formosa, OSHIMA Ann. Carnegie Mus. **12** p. 219 pl. li fig. 2.

CATOSTOMIDAE.

Catostomus richardsoni **sp. n.** N.W. Canada, HARPER and NICHOLS Bull. Amer. Mus. **41** p. 263 pl. xv. fig. 1.

HOMALOPTERIDAE.

Formosiana **gen. n.** *gilberti* **sp. n.** Formosa, OSHIMA Ann. Carnegie Mus. **12** p. 194 pl. xlix figs. 1–2.

COBITIDAE.

Nemachilus anguilla **sp. n.** India, ANNANDALE Rec. Ind. Mus. **16** p. 127.

BAGRIDAE.

Pseudobagrus taiwanensis p. 180 pl. xlviii fig. 1 *adiposalis* p. 181 pl. xlviii fig. 2 **spp. n.** Formosa, OSHIMA Ann. Carnegie Mus. **12.**

Aoria **gen. n.** = *Macrones* Dum. praeocc, JORDAN Proc. Acad. Philad. **70** p. 341.

AMPHILIIDAE.

Amphilius opisthophthalmus p. 159 *maesii* p. 160 **spp. n.** Congo, BOULENGER Rev. Zool. Afr. **7.**—*A. brevidorsalis* **sp. n.** Mozambique, PELLEGRIN Bull. Soc. Zool. France **44** p. 399.

Phractura lukugae **sp. n.** Lukuga, BOULENGER P.Z.S. **1919** p. 402 fig.

AMBLYCEPIDAE.

Amblyceps murray-stuarti **sp. n.** Burma, CHAUDHURI Rec. Ind. Mus. **16** p. 272.

Liobagrus nantoensis **sp. n.** Formosa, OSHIMA Ann. Carnegie Mus. **12** p. 183 pl. xlviii fig. 3.

MOCHOCIDAE.

Synodontis violaceus **sp. n.** Gribingui, PELLEGRIN Bull. Soc. Zool. **44** p. 212.—*S. flavitaeniatus* **sp. n.** Congo, BOULENGER Rev. Zool. Afr. **7** p. 161.

SCHILBEIDAE.

Eutropius eclipsis **sp. n.** Angola, FOWLER Proc. U.S. Nat. Mus. **56** p. 270 fig.

CLARIIDAE.

Clarias nigeriae **sp. n.** Niger, POPTA Zool. Med. Leiden **5** p. 4.

Allanbenchelys dhonti **sp. n.** Lukuga, BOULENGER P.Z.S. **1919** p. 402 fig.—*A. manyangae* **sp. n.** Congo, BOULENGER Rev. Zool. Afr. **7** p. 159.

AMIURIDAE.

Amiurus skull, KINDRED **77.**

Trogloglanis **gen. n.** *pattersoni* **sp. n.** Texas, EIGENMANN Proc. Amer. Phil. Soc. **58** p. 397 figs.

PIMELODIDAE.

Megalonema pauciradiatum **sp. n.** Essequibo, DRIVER Proc. Amer. Phil. Soc. **58** p. 455.

Luciopimelodus air-bladder, DRIVER **29.**

LORICARIIDAE.

Plecostomus brevis p. 5 *lacerta* p. 6 *scaplyceps* p. 7 **spp. n.** San Paulo, NICHOLS Rev. Mus. Paulista **11.**

Pseudotocinclus **gen. n.** *intermedius* **sp. n.** San Paulo, NICHOLS Rev. Mus. Paulista **11.**

Cyclopium mariae **sp. n.** Colombia, FOWLER Proc. Acad. Philadelphia **71** p. 125 pl. viii.

APODES.

Leptocephalus milnei, p. 215 *vermiculatus* p. 216 **spp. n.** Gangetic delta, SOUTHWELL and PRASHAD Rec. Ind. Mus. **16.**

MURAENIDAE.

Muraena dinocephala **sp. n.** W. Africa, METZELAAR Trop. Atl. Visschen p. 211.

OPHICHTHYIDAE.

Syletor **gen. n.** type *Pisodontophis cruentifer*, JORDAN Proc. Ac. Philad. **70** p. 343.

HAPLOMI.

ESOCIDAE.

Esox habits, distribution, KENDALL **75.**

MICROCYPRINI.

CYPRINODONTIDAE.

Haplochilus dhonti **sp. n.** Lukuga, BOULENGER P.Z.S. **1919** p. 17 fig.

Cyprinodon variegatus life history HILDEBRAND **48.**

Gambusia affinis, life history, HILDEBRAND **48.**

Lebistes reticulatus variation, heredity, SCHMIDT **123.**

SYNENTOGNATHI.

†*Forfex* **gen. n** *hypuralis* **sp. n.** Miocene, California, JORDAN and GILBERT Stanford Univ. Publ. **1919** p. 36 pl. xiv. fig. 3.

BELONIDAE.

Platybelone **subgen. n.** type *Belone platyura*, FOWLER Proc. Ac. Philad. **71** p. 2.

Strongylura peruana **sp. n.** Peru, FOWLER t.c. p. 3 fig.

SCOMBRESOCIDAE.

Scombresox edwardsi pl. xviii, *acutillus* pl. xiv fig. 2 **spp. n.** Miocene, California, JORDAN and GILBERT Stanford Univ. Publ. **1919** p. 37.

HEMIRHAMPHIDAE.

Eulepidorhamphus **subgen. n.** type *Hemirhamphus sajori*, FOWLER Proc. Ac. Philad. **71** p. 7.

Zenarchopterus hendersoni **sp. n.** Japan, FOWLER t.c. p. 8 fig.

EXOCOETIDAE.

Exocoetus, flying mechanism, AHLBORN **2.**

Cypselurus polyethmus p. 10 fig. 3 *hyperistius* p. 12 fig. 4 **spp. n.** Atlantic, FOWLER Proc. Ac. Philad. **71.**

ANACANTHINI.

GADIDAE.

†*Arnoldina* **gen. n.** *iniistia* **sp. n.** Pliocene, California, JORDAN and GILBERT Stanford Univ. Publ. **1919** p. 63 pl. xxvii fig. 2.

SOLENICHTHYES.

SYNGNATHIDAE.

Syngnathus avus **sp. n.** Miocene, California, JORDAN and GILBERT Stanford Univ. Publ. **1919** p. 34 pl. xxix fig. 2.—*S. pellegrini* **sp. n.** Gaboon, FOWLER Proc. U.S. Nat. Mus. **56** p. 265 fig.—*S. dunckeri* **sp. n.** Antilles, METZELAAR Trop. Atl. Visschen p. 28.

PERCOMORPHI.

†*Eclipes* **gen. n.** *veternus* **sp. n.** Miocene, California, JORDAN and GILBERT Stanford Univ. Publ. **1919** p. 47 pl. viii fig. 4.

SERRANIDAE.

Serranus dewegeri **sp. n.** Antilles, METZELAAR Trop. Atl. Visschen p. 52.

CHILODIPTERIDAE.

Apogon polylepis **sp. n.** Natal, REGAN Ann. Durban Mus. **2** p. 197 fig.

POMATOMIDAE.

†*Lophar* **gen. n.** *miocaenus* **sp. n.** Miocene, California, JORDAN and GILBERT Stanford Univ. Publ. **1919** p. 44 pls. iii fig. 2 xix xx.

CARANGIDAE.

Orqueta **gen. n.** type *Micropteryx polycentrus*. JORDAN Proc. Ac Philad. **70** p. 344.

Caranx angolensis **sp. n.** Angola, FOWLER Proc. U.S. Nat. Mus. **56** p. 280 fig.

LUTIANIDAE.

Lutianus hagari **sp. n.** Miocene, California, JORDAN and GILBERT t.c. p. 48 pl. xv figs. 1 4.

†*Lompoquia* **gen. n.** *retropes* **sp. n.** Miocene, California, JORDAN and GILBERT t.c. p. 49 pl. xxiv fig. 1.

†*Xyrinius* **gen. n** *houski*, **sp. n.** Miocene, California, JORDAN and GILBERT t.c. p. 50 pl. xxxi fig. 2.

ERYTHRICHTHYIDAE.

Erythrocles **gen. n.** type *Erythrichthys schlegeli*, JORDAN Proc. Ac. Philad. **70** p. 342.

POMADASIDAE.

Pristipoma boschmae **sp. n.** West Indies, METZELAAR Trop. Atl. Visschen p. 83.

Diagramma chubbi **sp. n.** Natal, REGAN Ann. Durban Mus. **2** p. 199 fig.

SCIAENIDAE.

Of California, STARKS **127.**

Umbrina gracilicirrhus **sp. n.** Antilles, METZELAAR Trop. Atl. Visschen p. 72.

MULLIDAE.

Upeneus phillipsi **sp. n.** New Jersey, FOWLER Occ. Pap. Mus. Zool. Mich. **56** p. 5 fig. 1.

CICHLIDAE.

Tiliapia borkuana **sp. n.** Borkou, PELLEGRIN Bull. Soc. Zool France **44** p. 150.—*T. sauvagei* **sp. n.** W. Africa, FOWLER Proc. U.S. Nat. Mus. **56** p. 243 fig.

Pelmatochromis haughi **sp. n.** Ogowe, PELLEGRIN Bull. Soc. Zool. **44** p. 103.

Paratilapia lukugae **sp. n.** Lukuga, BOULENGER P.Z.S. **1919** p. 18 fig.

Lamprologus dhonli **sp. n.** Lukuga, BOULENGER t.c. p. 19 fig.

POMACENTRIDAE.

Pomacentrus analis xanthus form. nov. Antilles, METZELAAR Trop. Atl. Visschen, p. 98.

Azurella **gen. n.** type *Microspathodon bairdii*, JORDAN Proc. Ac. Philad. **70** p. 341.

Abudefduf ascensionis **sp. n.** Ascension, FOWLER Proc U.S. Nat. Mus. **56** p. 217 fig.

Labridae.

Doratonotus boekei **sp. n.** Antilles, Metzelaar Trop. Atl. Visschen p. 107.

Julis azorensis **sp. n.** Azores, Fowler Proc. U.S. Nat. Mus. **56** p. 205 fig.

Gempylidae.

Thyrsites kreigeri **sp. n.** Miocene, California, Jordan and Gilbert Stanford Univ. Publ. **1919** p. 41 pl. xvii fig. 2.

Scombridae.

†*Auxides* **gen. n.** *sanctae-monicae* **sp. n.** Soledad, California, Jordan Stanford Univ. Publ. **1919** p. 10 pl. v fig. 2.

Acanthocybium gills, Bovien **22.**

Xiphiidae.

Xiphias gills, Bovien **22.**—Denticles, Carter **23.**

Callionymidae.

Callionymus boekei p. 149, *sancti eustatii* p. 150 **spp. n.** Antilles, Metzelaar Trop. Atl. Visschen.—*C. marleyi* **sp. n.** Natal, Regan Ann. Durban Mus. **2** p. 201 fig.

Stromateidae.

Centrolophus maoricus, McCulloch **91.**

Anabantidae.

Anabas ctenotis **sp. n.** Lukuga, Boulenger P.Z.S. **1919** fig.

Macropodus filamentosus **sp. n.** Formosa, Oshima Ann. Carnegie Mus. **12** p. 278 pl. lii fig. 2.

Oshimia **gen. n.** type *Micracanthus marchei*, Jordan Proc. Ac. Philad. **70** p. 342.

Ophiocephalidae.

Channa burmanica **sp. n.** Burma, Chaudhuri Rec. Ind. Mus. **16** p. 284.

Atherinidae.

†*Zanetedites* **gen. n.** *hubbsi* **sp. n.** Miocene, California, Jordan and Gilbert Stanford Univ. Publ. **1919** p. 39 pls. xv fig. 3 xvi.

Rheocles **gen. n.** type *Atherina sikorae*, Jordan Proc. Ac. Philad. **70** p. 343.

Hubbesia **gen. n.** type *Menidia gilberti*, Jordan Proc. U.S. Nat. Mus. **55** p. 310.

Leuresthes tenuis spawning, Thompson and Thompson **130.**

Melanorhinus **gen. n.** *boekei* **sp. n.** Antilles, Metzelaar Trop. Atl Visschen p. 38.

Iso natalensis **sp. n.** Natal, Regan Ann. Durban Mus. **2** p. 200 fig.

Eleotridae.

Revision of Australian spp., McCulloch and Ogilby **92.**

Eleotris legendrei **sp. n.** Madagascar, Pellegrin Bull. Soc. Zool. France **44** p. 270.

Gobiidae.

Development of Danish spp., Petersen **112.**

Revision of Australian spp., McCulloch and Ogilby Rec. Austral. Mus. **12** pp. 193-291 pls. xxxi–xxxvii.

Mugilogobius devisi **sp. n.** Queensland, McCulloch and Ogilby t.c. p. 223 pl. xxxvi fig. 2.

Aboma antiqua **sp. n.** Miocene, California, Jordan and Gilbert Stanford Univ. Publ. **1919** p. 56 pl. xxix fig. 1.

Gobius young stages of Plymouth spp., Lebour **82, 83.**—*G. elongatus* from Plymouth, Lebour t.c.—*G. bombayensis* **sp. n.** India, Annandale Rec. Ind. Mus. **16** p. 138.—*G. balearicus* **sp. n.** Mallorca, Lozano Rey Trab. Mus. Madrid Zool. **39** p. 73.—*G. curacao* p. 136 Antilles *senegambiensis* p. 282 W. Africa **spp. n.**, Metzelaar Trop. Atl. Visschen.

Xenogobius **gen. n.** *weberi* **sp. n.** Antilles, Metzelaar t.c. p. 140.

Rhinogobius taiwanus p. 298 pl. liii fig. 1 *formosanus* p. 300 pl. liii fig. 2 **spp. n.** Formosa, Oshima Ann. Carnegie Mus. **12.**

Glossogobius parvus **sp. n.** Formosa, OSHIMA t.c. p. 305 pl. liii fig. 3.

Vigil **gen. n.** type *Ammocrypta pillucida*, JORDAN Proc. Ac. Philad. **70** p. 344.

BLENNIIDAE.

Blennius niger p. 290, *riodourensis* p. 291 **spp. n.** W. Africa, METZELAAR Trop. Atl. Visschen.

CLINIDAE.

Gibbonsia evides variation, BEAN and WEED **10.**

Brannerella sluiteri **sp. n.** Antilles, METZELAAR Trop. Atl. Visschen p. 155.

Histioclinus **gen. n.** *veliger* **sp. n.** Antilles, METZELAAR t.c. p. 157.

Acanthemblemaria **gen. n.** *spinosa* **sp. n.** Antilles, METZELAAR t.c. p. 159.

PHOLIDIDAE.

Unagius **gen. n.** = *Cryptophthalmus* praeocc, JORDAN Proc. Ac. Philad. **70** p. 343.

BROTULIDAE.

†*Merriamina* **gen. n.** *ectenes* **sp. n.** Miocene, California, JORDAN and GILBERT Stanford Univ. Publ. **1919** p. 56 pl. xxvii figs. 1 3.

Verater **gen. n.** type *Pteridium atrum*, JORDAN Proc. Ac. Philad. **70** p. 343.

SCLEROPAREI.

SCORPAENIDAE.

†*Rhomarchus* **gen. n.** *ensiger* **sp. n.** Miocene, California, JORDAN and GILBERT Stanford Univ. Publ. **1919** p. 51 pl. xxxi fig. 5.

Scorpaena albofasciata p. 145, *tredecimspinosa* p. 146 **spp. n.** Antilles, METZELAAR Trop. Atl. Visschen.

Amblyapistus marleyi **sp. n.** Natal, REGAN Ann. Durban Mus. **2** p. 202 fig.

HEXAGRAMMIDAE.

Hexagrammus achrestus **sp. n.** Miocene, California, JORDAN and GILBERT Stanford Univ. Publ. **1919** p. 52 pl. xxiv fig. 2.

COTTIDAE.

†*Eoscorpius* **gen. n.** *primaevus* **sp. n.** Miocene, California, JORDAN and GILBERT Stanford Univ. Publ. **1919** p. 53 pl. xxx.

Cottus, Michigan spp. notes, HUBBS **54.**—*C. quadricornis venernensis*, LÖNNBERG **88.**

Pterygiocottus **gen. n.** *macouni* **sp. n.** British Columbia, BEAN and WEED Tr. R. Soc. Canada **13** p. 73 pl. iii.

CYCLOPTERIDAE.

†*Bulbiceps* **gen. n.** *raninus* **sp. n.** Soledad, California, JORDAN Stanford Univ. Publ. **1919** p. 12 pl. vi.

DACLYLOPTERIDAE.

Dactylopterus flying mechanism, AHLBORN **2.**

HETEROSOMATA.

PLEURONECTIDAE.

Limanda beanii is a *Poecilopsetta*, HUBBS **55.**

Errex **gen. n.** type *Glyptocephalus zachirus*, JORDAN Proc. Ac. Philad. **70** p. 343.

SOLEIDAE.

Solea vermeuleni **sp. n.** W. Africa, METZELAAR Trop. Atl. Visschen p. 279.—*S. vulgaris* races, MOHR **96.**

Pnictes **gen. n.** type *Achiropsis asphyxiatus*, JORDAN Proc. Ac. Philad. **70** p. 343.

CYNOGLOSSIDAE.

Plagusia robinsoni **sp. n.** Natal, REGAN Ann. Durban Mus. **2** p. 203 fig.

PLECTOGNATHI.

BALISTIDAE.

Aluteres flankerti **sp. n.** W. Africa, METZELAAR Trop. Atl. Visschen p. 295.

TETRODONTIDAE.

Tetrodon eulepidotus **sp. n.** Antilles, METZELAAR Trop. Atl. Visschen p. 170.—*T. pleurospilus* **sp. n.** Natal, REGAN Ann. Durban Mus. **2** p. 203.

DIODONTIDAE.

Chilomycterus briareos **sp. n.** Antilles, METZELAAR Trop. Atl. Visschen p. 173.

MOLIDAE.

Mola gills, BOVIEN **22.**

XENOPTERYGII.

GOBIESOCIDAE.

Gobiesox sancti martini **sp. n.** Antilles, METZELAAR Trop. Atl. Visschen p. 151.

Cotylichthys **gen. n.** type *Cotylis fimbriata,* JORDAN Proc. Ac. Philad. **70** p. 341.

PEDICULATI.

BATRACHIDAE.

Nautopaedium **gen. n.** type *Porichthys porosissimus,* JORDAN Proc. Ac. Philad. **70** p. 342.

OPISTHOMI.

MASTACEMBELIDAE.

Chaudhuria, REGAN **116.**

Mastacembelus decorsei **sp. n.** Gribingui, PELLEGRIN Bull. Soc. Zool. **44** p. 214.

RHIPIDISTIA.

†*Osteolepis* head, GOODRICH **42.**

OSTRACODERMI.

Mouth, JAEKEL **57.**

†*Tremataspis* brain and sense organs, WIMAN **133.**

XVI. REPTILIA AND BATRACHIA

ARRANGED BY

C. TATE REGAN, F.R.S.

CONTENTS.

	PAGE
I. Titles	2
II. Subject Index:—	
Structure=5607	7
Physiology=5611	8
Development=5615...	8
Ethology=5619	8
Variation, Heredity=5623...	8
Faunae=5627	8
Actual	8
Fossil	8
III. Systematic:—	
Reptilia	8
Lacertilia	8
Ophidia	10
Pterosauria	10
Crocodilia	10
Dinosauria...	10
Chelonia	11
Anomodontia	11
Rhynchocephalia	11
Batrachia	11
Ecaudata	11
Caudata	12
Stegocephalia	12

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II.—SUBJECT INDEX.

STRUCTURE.

Visceral Anatomy.

Attwood, 8.

Nervous System.

Hanson, 69; Holländer, 73; Kappers, 79; Tright, 119.

Tegumentary System.

Kollman, 82.

Osteology.

Allis, 3; Andrews, 4; Arthaber, 7; Bolkay, 22, 23; Boulenger, 39; Broom 41, 42; Case 43, 44; Drevermann, 57 Fürbringer, 62; Gilmore, 63, 65 Haughton, 71; Kesteven, 80; Lull, 87; Osborn and Mook, 95; Procter, 100; Versluys, 122; Vialleton, 123; Watson, 126, 127; Wegner, 128; Wiman, 129.

Myology.

Adams, 1; Edgeworth, 61.

Circulatory System.

Benham, 19; Goffaux, 66; Goodrich, 67; Jolly, 75, 76; Schmidt, 108.

Excretory and Reproductive Systems.

Hädge, 68; Patzfelt, 96.

PHYSIOLOGY.

Fertilization **Bataillon, 15.**

Experiments on development; **Allen, 2; Baldwin, 9; Bellamy, 18; Broek, 40; Cotronei, 52, 53; Duerken, 58; Kollmann, 81; Leplat, 85; Monticelli, 94; Terni, 117; Uhlenhuth, 120.**

Drying of eggs; **Lebedinsky** and **Menzel, 84.**

Venom; **Mitchell, 93; Phisalix** and **Caius, 97, 98.**

DEVELOPMENT.

(See also Physiology.)

Ovum.

Hovasse, 74.

Embryo.

Hewitt, 72.

Organogeny.

Kidney; **Hartmann, 70**: urogenital system; **Patzelt, 96**: lymph capillaries; **Tranchina, 118**: teeth; **Woerdeman, 131.**

ETHOLOGY.

Climate and coloration; **Cyrén, 54.**

AETIOLOGY, TERATOLOGY.

Evolution, **Boulenger, 37; Dehaut, 55, 56.**

Variation; **Lundblad, 88; Procter, 101.**

Sexual dimorphism; **Boulenger, 38; Kahn, 77.**

Teratology; **Benham, 19; Goffaux, 66; Patzelt, 96.**

FAUNAE.

A. Actual.

Palaearctic.

Europe; **Bolkay, 21; Chabanaud, 45; Maluqeur, 89; Mertens, 91; Préaubert, 99.**

Asia; **Barbour and Dunn, 13; Boulenger, 30, 31; Lantz** and **Cyrén, 83; Roux, 103.**

Nearctic.

Barbour, 10; Blanchard, 20; Boulenger, 28; Dunn, 59, 60; Ruthven, 104; Steineger and **Barbour, 113; Van Denburgh** and **Slevin, 121.**

Neotropical.

South America; **Beebe, 16, 17; Boulenger, 28, 29, 32; Ruthven, 105.**

West Indies; **Barbour, 11, 12; Barbour** and **Ramsden, 14; Schmidt, 106.**

Ethiopian.

Africa; **Boulenger, 24, 25, 33-36; Chabanaud, 47-50; Hewitt, 72; Methuen, 92; Schmidt, 107; Witte, 130.**

Madagascar; **Methuen, 92.**

Indian.

Continent; **Annandale, 5, 6; Boulenger, 26, 27; Chabanaud, 46; Smith, 110-112; Wall, 124, 125.**

Philippines; **Taylor, 115, 116.**

Australian.

Australia; **Sternfeld, 114.**

New Guinea; **Kampen, 78; Rooy, 102.**

New Zealand; **McCulloch, 90.**

B. Fossil.

Permo-carboniferous; **Case, 43, 44.**

Permian; **Gilmore, 63.**

Permo-triassic; **Broom, 41, 42; Haughton, 71.**

Triassic; **Drevermann, 57; Wiman, 129.**

Jurassic; **Boulenger, 39.**

Cretaceous; **Gilmore, 64.**

Eocene; **Andrews, 4; Loomis, 86.**

Oligocene; **Wegner, 128.**

Pleistocene; **Chapman, 51.**

III.—SYSTEMATIC.

REPTILIA.

Of Karroo, Haughton **71.**

LACERTILIA.

Geckonidae.

Gecko mindorensis **sp. n.** Philippines, Taylor Philip. J. Sci. **14** p. 115 fig.

Gonatodes dickersoni **sp. n.** Ituri, Schmidt Bull. Amer. Mus. **39** p. 436 fig.

Hemidactylus ituriensis **sp. n.** Congo, SCHMIDT t.c. p. 455 figs.

Lepidodactylus naujanensis **sp. n.** Philippines, TAYLOR Philip. J. Sci. **14** p. 113.

Lygodactylus depressus **sp. n.** Congo, SCHMIDT Bull. Amer. Mus. **39** p. 466 fig.

Sphaerodactylus scaber p. 126 pl. iii fig. 3, *intermedius* p. 211 **spp. n.** Cuba, BARBOUR and RAMSDEN Mem. Mus. Comp. Zool. **47**.—*S. becki* **sp, n.** Navassa, W. Indies, SCHMIDT Bull. Amer. Mus. **41** p. 520.

UROPLATIDAE.

Uroplatus fimbriatus urogenital system, HÄDGE **68.**

AGAMIDAE.

Amphibolurus reticulatus major, barbatus minor **subspp. n.** C. Australia, STERNFELD Mitt. Senckenb. Ges. **1** p. 78.

Japalura flaviceps p. 16, *splendida* p. 18 **spp. n.** China, BARBOUR and DUNN Proc. N. Eng. Zool. Club. **7.**

IGUANIDAE.

Anolis rubribarbus p. 156 pl. ix figs. 2, 3, *quadriocellifer* p. 158 pl. x fig. 1, *allogus* p. 159 pl. x fig. 2 **spp. n.** Cuba, BARBOUR and RAMSDEN Mem. Mus. Comp. Zool. **47.**—*A. apollinaris* **sp. n.** Colombia, BOULENGER P.Z.S. **1919** p. 79 fig.—*A. longiceps, latirostris* p. 521 Navassa, W. Indies, *olssoni* p. 522 Santo Domingo **spp. n.**, SCHMIDT Bull. Amer. Mus. **41.**

Chamaelinorops **gen. n.** (nr. *Anolis*) *barbouri* **sp. n.** Navassa W. Indies, SCHMIDT t.c. p. 523.

Cyclura portoricensis **sp. n.** Porto Rico, BARBOUR Proc. Biol. Soc. Washington **32** p. 146 figs.

Liocephalus raviceps from Cuba, BARBOUR **11.**

ANGUIDAE.

Celestus W. Indian **spp.**, BARBOUR **11.**

VARANIDAE.

Varanus acanthurus brachyurus **subsp. n.** C. Australia, STERNFELD Mitt. Senckenb. Ges. **1** p. 78.

TEIIDAE.

Ameiva navassae **sp. n.** Navassa W. Indies, SCHMIDT Bull. Amer. Mus. **41** p. 524.—*A. ameiva*, colour variation, BEEBE **17.**

Proctoporus bogotensis **sp. n.** Colombia, BOULENGER P.Z.S. **1919** p. 80 fig.

LACERTIDAE.

Acanthodactylus boskianus euphraticus **subsp. n.** Euphrates, BOULENGER Ann. Mag. Hist. (9) **3** p. 549.

Eremias nitida garambensis **subsp. n.** Congo, SCHMIDT Bull. Amer. Mus. **39** p. 511 figs.—*E. lugubris* evolution, BOULENGER **37.**

Ichnotropis chapini **sp. n.** Congo, SCHMIDT t.c. p. 508 fig.

Lacerta muralis coloration, races, DEHAUT **55, 56**; *L. muralis riveti* **var. n.** Greece, CHABANAUD Bull. Mus. Paris **1919** p. 23.—*L. muralis albanica* **var. n.** Albania, BOLKAY Glasn. Mus. Bosni i Herzegovini **31** p. 12.—*L. erhardi veithi* **var. n.** Albania, BOLKAY t.c. p. 12 pls. iii, iv.—*L. fiumana Méhelyi* **var. n.** Herzegovina, BOLKAY t.c. p. 17 pl. v figs. 2, 4.—*L. praticola pontica* **subsp. n.** Black Sea Basin, LANTZ and CYRÉN Ann. Mag. N.H. (9) **3** p. 30. —*L. langi* **sp. n.** Congo, SCHMIDT Bull. Amer. Mus. **39** p. 492 figs.—*L. serpa* races, MERTENS **91.**

Latastia kidwelli **sp n.** S. Africa, BOULENGER Tr. R. Soc. S. Afr. **8** p. 39.

SCINCIDAE.

Algiroides nigropunctatus concolor **var. n.** Albania, BOLKAY Glasn. Mus. Bosni i Herzegovini **31** p. 18.

Egernia striata **sp. n.** C. Australia, STERNFELD Mitt. Senckenb. Ges. **1** p. 79.

Lygosoma nigriventre p. 141 fig., *longicaudatum* p. 143 fig. **spp. n.** New Guinea, DE ROOY Bydr. Dierk. **21.**—*L.* (*Hinulia*) *leonhardii* p. 79, *quattuordecimlineatum* p. 80, **spp. n.**, *fasciolatum intermedium* p. 81 **subsp. n.** C. Australia, STERNFELD Mitt. Senckenb Ges. 1.—*L.* (*Homolepida*) *petersi* **nom. n.** = *L. muelleri* Peters *non* Schlegel, STERNFELD t.c. p. 81.—*L.* (*Rhodona*) *planiventrale desertorum* **subsp. n.** C. Australia, STERNFELD t.c. p. 82.

Mabuia sudanensis **sp. n.** Sudan, SCHMIDT Bull. Amer. Mus. **39** p. 536 pl. xxv.

Siaphos kempi **sp. n.** Philippines, TAYLOR Philipp. J. Sci. **14** p. 118 fig.

Sphenomorphus lednickyi p. 120 fig., *llanosi* p. 121 fig. **spp. n.** Philippines, TAYLOR t.c.

Tiliqua occipitalis multifasciata **subsp. n.** C. Australia, STERNFELD Mitt. Senckenb. Ges. **1** p. 79.

CHAMAELEONTIDAE.

Chamaeleon etiennei p. 574, *ituriensis* p. 589 figs. **spp. n.** Congo, SCHMIDT Bull. Amer. Mus. **19.**

OPHIDIA.

Of N. and W. Africa, BOULENGER **33, 34**; of India, WALL **125.**

GLAUCONIIDAE.

Glauconia kafubi **sp. n.** Congo, BOULENGER Rev. Zool. Afr. **7** p. 186.

TYPHLOPIDAE.

Typhlops fletcheri **sp. n.** Nilgiri Hills, WALL J. Nat. Hist. Soc. Bombay **26** p. 556 figs.—*T. leonhardii* **sp. n.** C. Australia, STERNFELD Mitt. Senckenb. Ges. **1** p. 77.—*T. luzonensis* p. 105, *manilae* p. 106, *longicauda* p. 108, *rugosa* p. 109, **spp. n.** Philippines, TAYLOR Philippine J. Sci. **14.**

COLUBRIDAE.

Chamaelycus **gen. n.**, *christyi* **sp. n.** Ituri, BOULENGER Rev. Zool. Afr. **7** p. 22.

Bothrolycus ater ,sexual differences in squamation, BOULENGER **38.**

Diadophis punctatus races, BARBOUR **10.**

Holarchus maculatus p. 364 pl. i, *burksi* p. 365 pl. ii **spp. n** Philippines, TAYLOR Philippine J. Sci. **13** D.

Hydrophis siamensis and *H. cyanocinctus*, SMITH **110.**

Lampropeltis getulus floridana p. 1 pl. i fig. 1 Florida, *yumensis* p. 6 pl. i fig. 2 Arizona **subspp. n.**, BLANCHARD Occ. Pap. Mus. Zool. Mich. **70.**—*L. getulus brooksi* **subsp. n.** Florida, BARBOUR Proc. N. Eng. Zool. Club. **7** p. 2.

Lycophidium polylepis **sp. n.** Ituri, BOULENGER Rev. Zool. Afr. **7** p. 21.

Pituophis variation, VAN DENBURGH and SLEVIN **121.**

Rhynchelaps anomalus **sp. n.** C. Australia, STERNFELD Mitt. Senckenb. Ges. **1** p. 77.

Simotes musyi **sp. n.** Fokien, China, ROUX Rev. Zool. Suisse **27** p. 61 figs.

Tropidophorus robinsoni p. 223, *thai* p. 226, **spp. n.** Siam, SMITH J. Nat. Hist. Soc. Siam **3.**

Xenocalamus transvaalensis **sp. n.** Transvaal, METHUEN P.Z.S. **1919** p. 350.

Zamenis constrictor viscera, ATTWOOD **8.**

VIPERIDAE.

Crotalus steinegeri **sp. n.** Sinaloa, DUNN Proc. Biol. Soc. Washington **32** p. 214.

Lachesis barbouri, **sp. n.** Mexico, DUNN t.c. p. 213.

Trimeresurus macgregori **sp. n.** Philippines, TAYLOR Philipp. J. Sci. **14** p. 110 figs.

†PTEROSAURIA.

†*Dorygnathus*, ARTHABER **7.**

CROCODILIA.

Crocodilus siamensis, SMITH.

†*Mystriosuchus planirostris*, DREVERMANN **57.**

Osteoblepharon **gen. n.** p. 420, *osborni* **sp. n.** p. 421 figs. Congo, SCHMIDT Bull. Amer. Mus. **39.**

Tomistoma africanum, DREVERMANN **57.**

†DINOSAURIA.

Vertebrae from Trias of Spitzbergen, WIMAN **129.**

†*Barosaurus*, LULL **87.**

†*Camarasaurus*, OSBORN and MOOK **95.**

†*Dimetrodon*, GILMORE **64.**

†*Edaphosaurus cruciger*, CASE **43.**

†*Triceratops*, GILMORE **65.**

CHELONIA.

Of Catalonia, MALUQUER **89.**—Of the Congo, SCHMIDT **107.**

†*Aspideretes latus* **sp. n.** Cretaceous of Alberta, GILMORE Proc. U.S. Nat. Mus. **56** p. 129 pl. xxxvii.

†*Agomphus alabamensis* **sp. n.** Eocene of Alabama, GILMORE t.c. p. 123 pl. xxxv.

†*Boremys albertensis* **sp. n.** Cretaceus of Alberta, GILMORE t.c. p. 119 pls. xxxiii, xxxiv.

Chelonia gwinneri, WEGNER **128.**

†*Cosmochelys* **gen. n.** *dolloi* **sp. n.** Eocence, Nigeria, ANDREWS P.Z.S. **1919** p. 314 pl. ii.

Emydura macquarrii, SIEBENROCK **109**; from Pleistocene of Victoria, CHAPMAN **51.**

†*Neurankylus wyomingensis* **sp. n.** Cretaceous of Wyoming, GILMORE Proc. U.S. Nat. Mus. **56** p. 113 pls. xxix, xxx.

†*Stylemys nebracensis*, CASE **44.**

†ANOMODONTIA.

†*Cyclogomphodon* **gen. n.** type *Diademodon platyrhinus*, BROOM Rec. Albany Mus. 3 p. 227.

†*Dicynodon schwarzi* **sp. n.**, BROOM t.c. p. 229.

†*Octagomphus* **gen. n.** *Woodi* **sp. n.** S. Africa, BROOM t.c. p. 229 figs.

RHYNCHOCEPHALIA.

†*Saphaeosaurus*, BOULENGER **39.**

BATRACHIA.

ECAUDATA.

Osteology, phylogeny, BOLKAY 22, **23.**—Sexual characters, KAHN **77.**

RANIDAE.

Arthroleptis dendrobates p. 8, *spinalis* p. 187, **spp. n.**, Congo, BOULENGER Rev. Zool. Afr. **7.**

Gephyromantis **gen. n.**, *boulengeri*. **sp. n.**, Madagascar, METHUEN P.Z.S, **1919** p. 351.

Hylixalus granuliventris **sp. n.** Colombia, BOULENGER P.Z.S. 1919 p. 81.

Ixalus variabilis tadpoles, ANNANDALE **6.**—*I. bombayensis* **sp. n.** Bombay, ANNANDALE Rec. Ind. Mus. **16** p. 124 pl. i fig. 1.—*I. garo*, p. 207 *Kempiae*, p. 208 **spp. n.** Assam, BOULENGER Rec. Ind. Mus. **16.**

Mantidactylus argenteus **sp. n.** Madagascar, METHUEN P.Z.S. **1919** p. 353.

Phrynobatrachus synopsis of spp. p. 2, *P. boulengeri* **sp. n.** Portuguese E. Africa p. 6, WITTE Rev. Zool. Afr. **6** fasc. 2.—*P. discodactylus* **sp. n.** Ituri, BOULENGER Rev. Zool. Afr. **7** p. 7.

Rana synopsis of American spp., BOULENGER **28.**—*R. subsigillata*, skull, affinities, PROCTER **100.**—*R. ornatissima* and *R. ruddi*, BOULENGER **24.**—*R. christyi* **sp. n.** Ituri, BOULENGER Rev. Zool. Afr. **7** p. 5.—*R. linnocharis syhadrensis* **subsp. n.** India, ANNANDALE Rec. Ind. Mus. **16** p. 123.

Trachymantis **nom. n.** = *Microphryne* (praeocc.), METHUEN P.Z.S. 1919 p. 352.

ENGYSTOMATIDAE.

Anhydrophryne **gen. n.**, *rattrayi* **sp. n.** Amatola Range, S. Africa, HEWITT Rec. Albany Mus. **3** p. 182 pl. v.

Xenorhina gigantea **sp. n.** New Guinea, VAN KAMPEN Bydr. Dierk. **21** p. 40.

DYSCOPHIDAE.

Calluella yunnanensis **sp. n.** Yunnan, BOULENGER Ann. Mag. N.H. (9) **3** p. 548.

Plethodontohyla tuberifera **sp. n.** Madagascar, METHUEN P.Z.S. **1919** p. 354.

CYSTIGNATHIDAE.

Lepidobatrachus = *Ceratophrys*, BOULENGER **29.**

Eleutherodactylus montanus **sp. n.** Santo Domingo, SCHMIDT Bull. Amer. Mus. **41** p. 519.

BUFONIDAE.

Bufo Chudeaui **sp. n.** Genegal, CHABANAUD Bull. Mus. Paris **1919** p. 454.

Nectophryne Kempi **sp. n.** Assam, BOULENGER Rec. Ind. Mus. **16** p. 207.

Hyla helenae **sp. n.** British Guiana, RUTHVEN Occ. Pap. Mus. Zool. Mich. **69** p. 10 pl. i.

PELOBATIDAE.

Aelurophryne **gen. n.** type *Bufo mammatus*, BOULENGER Rec. Ind. Mus. **16** p. 469.

DISCOGLOSSIDAE.

Liopelma hamiltoni **sp. n.** New Zealand, MCCULLOCH Tr. N. Zeal. Inst. **51** p. 447 pl. xxx.

CAUDATA.

DUNN **60**.

Amblystoma, MONTICELLI **94**.

Geomolge = *Onychodactylus*, DUNN Bull. Mus. Comp. Zool. **62** p. **454**.

Eurycea larvae, DUNN t.c. p. **468**.

Molge vulgaris, colour changes, LUNDBLAD **88**.

†*Ototriton* **gen. n.** *solidus* **sp. n.** Eocene of Wyoming, LOOMIS Amer. J. Sci. **47** p. 217 figs.

Triturus grouping of species, DUNN Bull. Mus. Comp. Zool. **62** p. 447.

Plethodon dorsalis, DUNN t.c. p. 460.

†STEGOCEPHALIA.

Classification, WATSON **126**.

XVII. AVES

ARRANGED BY

W. L. SCLATER, M.A.

CONTENTS.

	PAGE
I. Titles	5
II. Subject Index :—	
Comprehensive and General = 5803 :—	
History	37
Biography—General	37
„ Autobiography	37
„ Obituary Notices	37
General and Popular Treatises	37
Bibliography	37
Institutions and Collections	37
Technique and Methods	37
Economics	37
Conservation and Protection	37
Acclimatization and Domestication	37
Aviculture	37
Nomenclature	37
Phylogeny and Classification	37
Structure = 5807 :—	
Plumage and epithelial structures	37
Nervous system and Sense organs	37
Osteology	37
Myology and Tendons	38
Digestive System	38
Circulatory System	38
Urinogenital System	38
Anatomy of special forms	38
Physiology = 5811	38
Embryology = 5815	38

PAGE

Ethology = 5819 :—
General and Miscellaneous 38
Food habits 38
Migration, General Problems 38
,, Regional Observations 38
,, Migration of Single Species 38
,, Bird-marking and Fly-routes 39
Flight 39
Parental relations 39
Sexual relations and display 39
Nidification, General Problems 39
,, Regional Observations 39
,, Observations on single species 39
Voice 39
Psychology 39
Colour and Moult.. 39
Pathology.. 39
Avian Parasitology 39
Mortality 39

Variation and Aetiology = 5823 :—
Variation 39
Teratology 39
Hybrids 39
Heredity and Evolution 40
Fossil and Extinct birds 40

Geography = 5827 :—
Palaearctic Region 40
Ethiopian Region 42
Indian Region 42
Australian Region 43
Neotropical Region 43
Nearctic Region 43
The Oceans 44

III. Systematic :—

Archæopteryges 45
Rheiformes 45
Struthioniformes 45
Casuariiformes 45
Dinornithiformes 45
Æpyornithiformes 45
Tinamiformes 45
Galliformes 45
Pteroclidiformes 46
Columbiformes 46
Ralliformes 47
Podicipediformes 47
Colymbiformes 47

PAGE

Sphenisciformes 47
Procellariiformes 48
Alciformes.. 48
Lariformes 48
Charadriiformes 49
Gruiformes 50
Ardeiformes 50
Anseriformes 50
Pelecaniformes 51
Cathartidiformes 51
Accipitriformes 51
Strigiformes 53
Psittaciformes 53
Coraciiformes 53
Trogones 55
Coccyges 55
Scansores 56
Eurylaemiformes 57
Menuriformes 57
Passeriformes 58
Pteroptichidæ 58
Conopophagidae 58
Formicariidæ 58
Dendrocolaptidæ 58
Tyrannidæ 59
Pipridæ 60
Cotingidæ 60
Pittidae.. 60
Hirundinidæ 60
Muscicapidæ 60
Campophagidæ 61
Pycnonotidæ 61
Timeliidæ 61
Troglodytidæ 62
Cinclidæ 62
Mimidæ 63
Turdidæ 63
Sylviidæ 63
Vireonidæ 64
Ampelidæ 64
Prionopidæ 64
Laniidæ 64
Paridæ 65
Regulidæ 65
Sittidæ 65
Certhiidæ 65
Zosteropidæ 65
Dicæidæ 65
Nectariniidæ 65

PAGE

Passeriformes—*continued*

Meliphagidæ 65
Mniotiltidæ 65
Drepanididæ 66
Motacillidæ 66
Alaudidæ 66
Fringillidæ 66
Cœrebidæ 68
Procniatidæ 68
Tanagridæ 68
Ploceidæ 68
Icteridæ 69
Sturnidæ 69
Eulabetidæ 70
Oriolidæ 70
Dicruridæ 70
Paradiseidæ 70
Corvidæ 70

I.—TITLES.

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Walton, J. S. T. *vide* Bolam.

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Wells, G. *vide* Carriger.

Wells, T. *Scotocichla fuscicapilla babaulti* subsp. n. London Bull. Brit. Orn. Cl. **39** 1919 (69–70). **784**

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Wetmore, A. *vide* Townsend.

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White, S. A. Four ornithological trips to the Nullabor Plains. Emu Melbourne **18** 1919 (189–198) photos. **798**

White, S. A. The Allied Buff-rumped Tit-Warbler (*Geobasileus hedleyi rosinae*). Emu Melbourne **19** 1919 (81–82) pl. xix. **799**

White, S. A. Sketch of the life of Samuel White. S. Austr. Orn. Adelaide **4** 1919 (26–33 54–60 79–82). **800**

White, S. A. Birds recorded from the early days up to the present time for the Reed Beds district. S. Austr. Orn. Adelaide **4** 1919 (101–114). **801**

Whitlock, F. L. Notes on birds breeding in the Dampier Archipelago, N.W. Coast of Australia. Emu Melbourne **18** 1919 (240–253) photos. **802**

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Wright, A. H. The Yellow-throated Warbler in Central New York. Auk Cambridge Mass. **36** 1919 (580–581). **830**

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II.—SUBJECT INDEX.

N.B.—For full Reference vide Titles.

COMPREHENSIVE AND GENERAL. 5803

History.

Cardoso, 122; Rothschild, 639; Schenk, 660.

Biography—General.

J. P. GIRAUD (1811-1870), **Stone, 719**; SIR WM. JARDINE, **Gladstone, 271**; S. WHITE, **White, 800**; S. A. WHITE, T. CARTER, W. D. K. MACGILLIVRAY, **Mathews, 472.**

Biography—Autobiography.

H. W. HENSHAW, **328.**

Biography—Obituary Notices.

M. P. ANDERSON, **Anderson, 18**; F. R. S. BAXENDALE, **Jourdain, 381**; C W BENSON, **Moffat, 503**; L BRASIL, **Sclater, 676**; W. BREWSTER, **Chapman, 130**; S. E. BROCK, **Evans, 227**; MARCHESE DORIA, **Sclater, 676**; T. A. DORRIEN-SMITH, **Sclater, 673**; F. DU C. GODMAN, **Clarke, 155**; **Sclater, 675**; C. KERBERT, **Anon., 19**; SIR W. MACGREGOR, **Sclater, 678**; J. C. MCLEAN, **Sclater, 677**; A. MAES, **Schaeck, 657**; E. A. MEARNS, **Richmond, 614**; MRS. O. T. MILLER, **Bailey, 34, 36**; F. NORGATE, **Pym, 599**; J. A. PALMEN, **Nordqvist, 523**; T. ROOSEVELT, **Millais, 494**; A. SACRÉ, **Coopman, 169**; J. WIGLESWORTH, **Blathwayt, 82**; **Sclater, 677.**

General and Popular Treatises.

Finn, 241; Gilmore, 270; Moseley, 508; Thorburn, 756; Witherby, 817.

Bibliography.

Åhlander, 4; Cardoso, 122; Faxon, 235; Herrick, 332; Mathews, 471 p. 443; **Mullens, 511, 512; Richmond, 613; Schenk, 660; Schiebel, 662; Schmidhoffen, 666; Stone, 718.**

Institutions and Collections.

TRING MUSEUM, **Hartert, 314**; ROSITTER BIRD-STATION, **Thienemann, 753.**

Technique and Methods.

Plate, 593.

Economics (see also under Food-habits, p. 58).

Bailey, 33; Brookes, 98; Cleland, 160; Coker, 161; Collinge, 164, 165, 166; Dammerman, 189; Frohawk, 251; Hurst, 365; McAtee, 450; Riddle & Harris, 616.

Conservation and Protection.

Bailey, 31; Bonhote, 87; Clarke, 153; Gabriel, 252; Lawyer, 419; Meade-Waldo, 477; Schenk, 661; Taverner, 746.

Acclimatization and Domestication.

Chisholm, 138; Dixon, 197; Haeusler, 298.

Aviculture.

Baily, 37; Dixon, 197; Hopkinson, 354; St. Quintin, 647; Tavistock, 749, 750.

Nomenclature.

GENERAL PRINCIPLES, **Gurney, 294.**

CHANGES AND EMENDATIONS, **Bangs & Penard, 53, 54; Hellmayr, 321; Laubmann, 415, 418; Lönnberg, 433; Mathews & Iredale, 474; Oberholser, 530, 535, 537, 539, 549, 552, 554; Penard, 584, 585; Richmond, 613.**

VERNACULAR NAMES, **Seton, 686.**

Phylogeny & Classification.

Dennler, 194; Gengler, 258; Loomis, 440; Miller, 497, 499; Oberholser, 529, 552; Stresemann, 721.

STRUCTURE. 5807

Plumage and Epithelial Structures.

Boring & Morgan, 88; Boubier, 90; Ingram, 370; Steiner, 710; Wetmore, 786.

Nervous System and Sense Organs.

Dennler, 194; Heringa, 329; Wood, 828.

Osteology.

Chubb, 151; Danforth, 190; Greschik, 280; Shufeldt, 689 p. 111, **691; Virchow, 774, 775, 776.**

Myology and Tendons.

Adams, 2; Miller, 496.

Digestive System.

Greschik, 279.

Circulatory System.

Plate, 592.

Urino-genital System.

Goodale, 274; Kollman, 400.

Anatomy of Special Forms.

STRUTHIO, Duerden, 211; MEGAPODIADE, Shufeldt, 689, p. 111; PORPHYRIO, TACHYBAPTUS, HYDROPHASIANUS, PITHECOPHAGA, Shufeldt, 691; DIDUS, Chubb, 151; ANSERANAS, Miller, 500; IYNX, Dennler, 194; REGULUS, Greschik, 279; PASSER, Greschik, 280.

PHYSIOLOGY. 5811

Nervous System and Sense Organs.

Martin & Rich, 469; Riddle & La Mer, 617; Rochon-Duvigneaud, 637.

Circulation.

Congdon, 167; Mangold, 465.

Reproduction.

Riddle & Anderson, 615.

Limb movement.

Houssay, 359; Virchow, 774, 775, 776.

Chemical Physiology.

Allen, 13; Behre & Riddle, 67; Koch & Riddle, 398; Riddle & La Mer, 617; Palmer, 574.

Miscellaneous.

Buckner, 105; Klatt, 394; Pohlman, 596.

EMBRYOLOGY. 5815

Alsop, 14; Atwell & Sitler, 24; Congdon, 167; Ludwig, 447; Tannreuther, 742; Tayler, 751.

ETHOLOGY. 5819

General and Miscellaneous.

Baldwin, 49; Bent, 72; Bolam, 84; Buytendyk, 116; Finn, 241; Gibson, 263; Gladstone, 272; Haviland & Pitt, 316; Morgan, 507; Poulton, 598; Routledge, 641; Teschauer, 752.

Food-habits.

GENERAL, Clark, 152; Cleland, 160; Collinge, 164, 165, 166; Krohn, 406; Levander, 425; Marelli, 467; Wait, 777.

THE FOOD-HABITS OF: *Lathamus* and *Platycercus*, Cole, 162; *Turdus*, Haviland & Pitt, 316; *Sturnus*, Mercier, 485; *Corvus*, Meyere, 493.

Migration (General Problems).

Boubier, 89; Eckardt, 217; Ingram, 371; Leopold, 422; Lucanus, 445; Meinertzhagen, 479; Stubbs, 731.

Migration, regional observations.

BRITISH ISLANDS: Gurney, 293; Rintoul & Baxter, 621; Ticehurst, 758.

FRANCE: Schuster, 670.

GERMANY: Stadler, 705.

HUNGARY: Mannsberg, 466.

SWITZERLAND: Fischer-Sigwart, 244.

HOLLAND: Brouwer & Verwey, 101 Ekama, 221; Swaen, 737.

DENMARK: Hørring, 357.

RUSSIA: Gréve, 281; Kracht, 404.

MEDITERRANEAN: Suffern, 732.

CANARY IS.: Bannerman, 55.

EASTERN ASIA: Enomoto, 225; Kuroda, 411; Kuroda & Miyakoda, 412.

INDIAN EMPIRE: Kenny, 387.

NORTH AMERICA: Douthitt, 204; Oberholser, 564; Pearson & Brimley, 580; Philipp & Bowdish, 588.

ATLANTIC OCEAN: Garnett, 255.

Migration of single species.

Scolopax, Lucanus, 444; Thinemann, 754; *Chaetura*, Dove, 205; *Iridoprocne*, Farley, 233; *Bombycilla*, Tratz, 767.

Bird-marking and Fly-routes.

Baldwin, 49; Falz-Fein, 231; Heyder, 341; Hildebrandt, 343; Lucanus, 445, 446; Rendall, 609; Robinson, 635; Thienemann, 753; Witherby, 823, 824, 825.

Flight.

Eckardt, 217; Houssay, 359; Lilienthal, 427.

Parental Relations.

Evans, 229; Macintyre, 457.

Sexual Relations and Display.

Carpenter, 123; Huxley, 368; Le Souef, 423.

Nidification (General Problems).

Belcher, 68; Bent, 72; Bunyard, 108; Cathelin, 125, 126; Morgan, 507; Mousley, 509; Nichols, 518; Schuster, 671; Wibeck, 803.

Nidification (Regional observations).

HOLLAND: De Vries, 195.

SWITZERLAND: Bächler, 25.

RUSSIA: Cordes, 171.

EGYPT: Koenig, 399.

INDIA: Baker, 39; Donald, 201; Hopwood, 355; Jones, 376, 377; Whistler, 791.

SIAM: Baker, 38; Williamson, 815.

SUMATRA: Beaufort & Bussy, 62.

AUSTRALIA: Ramsay, 600; Whitlock, 802.

ARGENTINA: Doello-Jurado, 200; Gibson, 263; Reed, 603.

GALAPAGOS IS.: Gifford, 264.

UNITED STATES: Bartsch, 60; Pearson & Brimley, 580; Williams, 809.

Nidification (observations on single species, *vide* Pt. III. Systematic).

Bacmeister, 27, 28; Bradbury, 94, 95; Bunyard, 107; Carriger & Wells, 124; Cheesman & Buxton, 133; Chisholm, 137; Dawson, 193; Dove, 206; Dubois, 207; Ekblaw, 222, 224; Evermann, 230; Gilbert, 265, 266; Gillespie, 269; Gunthorp, 292; Hesse, 335; Jackson, 374; Jourdain, 382; Kitchin, 393; Krohn, 407; Mackenzie, 458; M'Gilp, 455; Munro, 514; Oldham, 567; Owen, 572; Pike, 590; Ray, 645; Richards, 612; Rowan, 642; Rust, 645; Schlegel, 664, 665; Shaver, 687; Shufeldt, 689; Steenhuizer, 709; Stewart, 716; Thomson, 755; Turner, 771; Van Fleet, 773; Wayne, 782; Whistler, 794; White, 797; Willett, 807; Worcester, 829.

Voice.

GENERAL OBSERVATIONS: Allen, 11; Burkitt, 110; Hagen, 299; Hoffmann, 346; Mousley, 509; Saunders, 653; Sutton, 736; Zimmer, 835.

On the song or note of: *Bonasa*, Tuttle, 772; *Pernis*, Hesse, 335; *Dryobates*, Huxley, 367; *Regulus*, Saunders, 654; *Corvus*, Allen, 9.

Psychology.

Adlersparre, 3; Allen, 9; Cathelin, 126; Gladstone, 272; Poulton, 598.

Colour and Moult.

Blaauw, 80; Butler, 114; Jackson, 372; Someren, 698; Stresemann, 723 p. 12, 728.

Pathology.

McCarrison, 452; Wetmore, 790.

Avian Parasitology.

Arnold, 20; Plath, 594, 595.

Mortality.

Meade-Waldo, 477.

VARIATION AND AETIOLOGY. 5823

Variation.

Baker, 47; Buchner, 104; Duerden, 208; Grinnell, 283; Loomis, 441, 442.

Teratology.

Cole & Lippincott, 163; Danforth, 190; Shufeldt, 688; Tannreuther, 742; Tayler, 751.

Hybrids.

Duerden, 209, 210; Lincoln, 429; Lönnberg, 432, 435, 437; Nichols, 517.

Heredity and Evolution.

EVOLUTION: **Alverdes, 15; Butler, 114; Haviland & Pitt, 316; Stresemann, 720.**

GENETICS: **Boring & Morgan, 88; Cole & Lippincott, 163; Cunningham, 182; Duerden, 208, 209, 210; Hadley, 297; Palmer & Kempster, 575; Riddle & Harris, 616.**

SEXUAL SELECTION: **Becher, 63.**

Fossil and Extinct Birds.

Ailio, 5; Ammon, 17; Boule, 92; Kormos & Lambrecht, 401; Marshall, 468; Rothschild, 639; Schweppenburg, 672.

GEOGRAPHY. 5827

General.

Boubier, 91; Hall & Grinnell, 300.

PALAEARCTIC REGION.

British Islands.

GENERAL AND POPULAR WORKS: **Coward, 178; Hudson, 363; Mullens, 512; Thorburn, 756; Witherby, 817, 821.**

HERTFORDSHIRE: **Oldham, 567.**

SURREY: **Goodall, 275.**

SUSSEX: **Belt, 70; Edwards, 218; Nicoll, 520.**

BERKSHIRE: **Jourdain, 383.**

OXFORDSHIRE: **Edwards, 218; Jourdain, 383.**

SOMERSETSHIRE: **Wiglesworth, 804, 805, 806.**

DEVONSHIRE: **Watkin, 781.**

ESSEX: **Brown, 102; Chubb, 147; Owen, 573; Willmott, 816.**

SUFFOLK: **Stanford, 708.**

NORFOLK: **Gurney, 293; Patterson, 579; Turner, 770, 771.**

LINCOLNSHIRE: **Mullens, 511.**

WORCESTERSHIRE: **Leigh, 420.**

STAFFORDSHIRE: **Masefield, 470.**

SHROPSHIRE: **Forrest, 247.**

CHESHIRE: **Coward, 179.**

LANCASHIRE: **Coward, 179; Robinson, 636.**

YORKSHIRE: **Gyngell, 296.**

WESTMORELAND: **Astley, 22.**

NORTHUMBERLAND: **Bolam, 84, 85, 86; Chapman, 128; Gill, 267, 268.**

WALES: **Forrest, 246; Ticehurst, 758.**

SCOTLAND, GENERAL: **Baxter & Rintoul, 61; Clarke, 157; Rintoul & Baxter, 621; Henderson, 324.**

BERWICKSHIRE: **M'Conachie, 454.**

DUMFRIES-SHIRE: **Gladstone, 271.**

KIRKCUDBRIGHTSHIRE: **Hough, 358; Maxwell, 476.**

MIDLOTHIAN: **Clarke, 156.**

ARGYLLSHIRE: **Kirk, 391.**

INVERNESS-SHIRE: **Clarke, 158.**

ROSS-SHIRE: **Kirke, 392.**

OUTER HEBRIDES: **Beveridge, 78; Guthrie, 295; Kleinschmidt, 395.**

ORKNEY AND SHETLAND: **Greatorex, 278; Jourdain, 379; Meade-Waldo, 477; Selous, 685; Witherby, 820.**

IRELAND: **Guinness, 291; Kleinschmidt, 395; Lindner, 431; Stendall, 711; Williams, 814.**

GUERNSEY: **Rowswell, 643.**

France.

GENERAL: **Menegaux, 492.**

EASTERN FRANCE (WAR DISTRICTS): **Schuster, 670; Sowerby, 702; Stadler, 706; Sunkel, 733, 734.**

NORD: **Boyd, 93; Witherby, 819.**

PAS-DE-CALAIS: **Boyd, 93; Medlicott, 478; Wallis, 779.**

SOMME: **Boyd, 93.**

SEINE INF.: **McWilliam, 459.**

EURE: **Guégan, 290.**

SARTHE: **Letacq, 424.**

CALVADOS: **Dart, 191.**

BELLE ISLE: **Abadie, 1.**

VENDÉE: **Seguin-Jard, 684.**

LANDES: **Burleigh, 111.**

C. PYRÉNEES: **Hartert, 308.**

PYRÉNEES-ORIENTALES: **Harper, 305.**

ARDENNES: **Gerlach, 261; Zimmermann, 837.**

YONNE: **Wallis, 780.**

ALSACE: Bacmeister, 26.

ISÈRE ET HAUTES-ALPES: l'Hermitte, 331.

MONACO: Boule, 92.

Germany.

GENERAL: Bacmeister, 29; Hesse, 336; Hoffmann, 345; Kleinschmidt, 396.

WESTFALEN: Hennemann, 325; Reichling, 607.

HANNOVER: Schnurre, 668; Seemann, 683.

HESSE: Schnurre, 668.

THURINGISCHE STAATEN: Hildebrandt, 342.

PROV. SACHSEN: Hesse, 337.

KONGR. SACHSEN: Heyder, 340; Schelcher, 659.

BRANDENBURG: Hammling, 302; Rudiger, 644.

HOLSTEIN: Kuhl, 408; Schelcher, 659.

POMMERN: Hoffmann, 346; Hubner, 362; Koske, 402; Reichenow, 604; Tischler, 760.

WESTPREUSSEN: Dobbrick, 198, 199; Ibath, 369.

OSTPREUSSEN: Tischler, 761.

SCHLESIEN: Zedlitz, 832.

WÜRTTEMBERG: Fischer, 242.

BAYERN: Hellmayr u. Laubmann, 322; Laubmann, 416; Lindner, 430; Merk-Buchberg, 486; Sachtleben, 650; Stadler, 705; Sunkel, 735.

FRIESSISCHE INS.: Heyder, 341.

Austria-Hungary.

GENERAL: Schmidhoffen, 666.

LOWER AUSTRIA: Becker, 64; Obermayer, 565.

TIROL: Büsing, 113.

CECHO-SLOVAKIA: Gengler, 259.

GALICIA: Schelcher, 658.

HUNGARY: Chernel, 134, 135, 136; Csörgey, 181; Kormos & Lambrecht, 401; Mannsberg, 466; Schenk, 660, 661; Schweppenburg, 672.

Switzerland.

Bächler, 25; Fischer-Sigwart, 243, 244; Hess, 333, 334; Soffel, 697; Tratz, 766.

Belgium.

Contreras, 168; Coopman, 169, 170; Dietrich, 196; Dupont, 212; Havre, 317, 318; Mairlot, 463, 464; Pasque, 577.

Holland.

Brouwer & Verwey, 101; Ekama, 221; Oordt, 568, 569, 570; Snouckaert, 694, 695; Steenhuizen, 709; Swaen, 737.

Scandinavia.

DENMARK: Ferdinand, 236; Helms, 323; Hørring, 356, 357; Jespersen, 375; Kristensen, 405.

SWEDEN: Berg, 73; Fries, 250; Gertz, 262; Lönnberg, 434, 436, 438, 439; Nyqvist, 524, 525; Ringdahl, 620; Welander, 783; Wibeck, 803.

ICELAND: Bergman, 74; Gordon, 276; Nielsen, 521; Schiøler, 663.

Russia.

GENERAL: Cordes, 171; Stresemann, 723.

FINLAND: Ailio, 5.

BALTIC PROV.: Gréve, 281.

LITHUANIA: Sachtleben, 651.

ORENBURG; Grote, 288.

TAURIEN: Falz-Fein, 231.

ASTRAKAN: Kracht, 404.

CAUCASUS REGION: Gengler, 257.

Iberian Peninsula.

SPAIN AND PORTUGAL: Witherby, 826, 827.

Italy.

Sachtleben, 649; Stadler, 704; Stresemann, 723, 724; Tratz, 765.

Balkan Peninsula.

TURKEY: Mathey-Duprez, 475.

BULGARIA: Boetticher, 83.

ROUMANIA: Stresemann, 722, 723.

MACEDONIA: Gengler & Stresemann, 260; Reichenow, 606; Sachtleben, 648; Stresemann, 722.

Mediterranean Sea and Islands.

MEDITERRANEAN: **Suffern, 732.**

BALEARIC IS.: **Gosse, 277; Witherby, 827.**

SICILY: **Trischitta, 768, 769.**

North Africa.

MOROCCO: **Hartert, 310; Lynes, 449.**

TUNIS: **Bédé, 65.**

EGYPT: **Berney, 76; Bonhote, 87; Hartert, 311, 313; Koenig, 399; Nicoll, 519.**

Atlantic Islands.

CANARY ISLANDS: **Bannerman, 55.**

Western Asia.

SYRIA: **Rothschild, 640.**

PALESTINE: **Berney, 76; Gengler, 257; Meinertzhagen, 480; Schmitz, 667; Sladen, 693.**

MESOPOTAMIA: **Béldi, 69; Donald, 202; Jourdain, 378.**

PERSIA: **Baker, 48; Béldi, 69.**

Russian Asia.

SIBERIA: **Hall, 301.**

Eastern Palaearctic Asia.

SAGHALIN: **Momiyama, 504.**

JAPAN: **Enomoto, 225; Kuroda, 409, 410, 411; Momiyama & Nomura, 505.**

COREA: **Kuroda & Miyakoda, 412.**

N. CHINA: **Hartert, 312; Reichenow, 604; Sowerby, 701.**

TIBET: **Reichenow, 604.**

ETHIOPIAN REGION.

GENERAL: **Sclater, 674.**

West Africa.

GAMBIA: **Hopkinson, 352, 353.**

NIGERIA: **Reichenow, 605.**

CAMEROON: **Bannerman, 56; Sclater, 681.**

BELGIAN CONGO: **Bannerman, 57, 58; Reichenow, 604; Schouteden, 669.**

ANGOLA: **Reichenow, 604; Someren, 699.**

PRINCE'S IS., GULF OF GUINEA: **Bannerman, 56.**

South Africa.

GENERAL: **Finch-Davies, 237, 238.**

S.W. AFRICAN PROTECTORATE: **Finch-Davies, 239.**

CAPE PROVINCE AND TRANSVAAL: **Godfrey, 273; Roberts, 624.**

NATAL: **Symons, 741.**

PORTUGUESE E. AFRICA: **Someren, 699.**

TANGANYIKA TERRITORY (GERMAN EAST AFRICA): **Grote, 287, 289; Someren, 699; Reichenow, 604, 605.**

KENYA COLONY (BT. EAST AFRICA): **Bannerman, 56; Hartert, 309; Reichenow, 604; Someren, 699.**

UGANDA: **Belcher, 68; Jackson, 373; Someren, 699.**

North-East Africa.

SOMALILAND: **Clarke, 154.**

SUDAN: **Sclater & Mackworth-Praed 679.**

INDIAN REGION.

Indian Empire and Ceylon.

GENERAL: **Baker, 39; 40; Osmaston, 571.**

N.W. FRONTIER PROVINCE: **Whistler, 795.**

PUNJAB: **Donald, 201; Jones, 376, 377; Whistler, 791, 792, 793.**

BOMBAY: **Kinnear, 390.**

HYDRABAD (DECCAN): **Currie, 183.**

MADRAS PRES.: **Baker, 44, 45; Dawson, 192.**

CEYLON: **Wells, 784.**

ASSAM: **Baker, 41.**

BURMA: **Baker, 41; Hopwood, 355; Kenny, 387; Mackenzie, 458.**

ANDAMAN AND NICOBAR IS.: **Oberholser, 550, 559.**

Malayia.

MALAY PENINSULA: **Robinson, 628; Robinson & Kloss, 632.**

SUMATRA AND ADJACENT IS.: **Beaufort & Bussy, 62; Oberholser, 557, 558, 560; Robinson & Kloss, 633; Snouckaert, 696.**

JAVA: **Bartels, 59; Dammerman, 189; Riley, 619; Robinson & Kloss, 632.**

BORNEO: **Baker, 43; Robinson & Kloss, 632; Sclater, 682.**

TAMBELAN IS. (S. CHINA SEA, W. OF BORNEO): **Oberholser, 555.**

CELEBES: **Riley, 619.**

PHILIPPINE IS.: **Bangs, 52; Neumann, 515.**

PALAWAN: **Sclater, 682; Zimmer, 836.**

Indo-China and Southern China.

SIAM: **Baker, 38; Gairdner, 254; Kloss, 397; Robinson & Kloss, 629, 630, 632; Williamson, 815.**

ANNAM AND COCHIN CHINA: **Robinson & Kloss, 631; Wells, 785.**

SOUTHERN CHINA: **Baker, 40; La Touche, 414; Sclater, 682.**

AUSTRALIAN REGION.

New Guinea and dependent Islands.

NEW IRELAND: **Neumann, 516.**

NEW GUINEA: **Reichenow, 605.**

Australian Commonwealth.

GENERAL: **Cleland, 160; Mathews, 471.**

WESTERN AUSTRALIA: **Alexander, 7; Mathews, 473; Whitlock, 802.**

SOUTH AUSTRALIA: **McGilp, 456; Mellor, 481, 482, 484; Morgan, 506, 507; White, S. A., 798, 801.**

NORTHERN TERRITORY: **Campbell, 118.**

TASMANIA: **Lord, 443.**

VICTORIA: **Bryant, 103; Currie, 184; Gabriel, 252; Lendon, 421.**

NEW SOUTH WALES: **Cleland, 159; Gilbert, 266; Ramsay, 600.**

QUEENSLAND: **Chisholm, 138; Harvey, 315; Jackson, 374; Kersey, 388.**

New Zealand and Pacific Islands.

NEW ZEALAND: **Haeusler, 298; Philpott, 589; Stuart-Sutherland, 730.**

PACIFIC ISLANDS IN GENERAL: **Townsend & Wetmore, 764.**

SAMOA: **Reichenow, 605.**

HAWAIIAN IS.: **Bailey, 31; Maccaughey, 453; Perkins, 587; Willett, 807.**

NEOTROPICAL REGION.

GENERAL: **Chubb, 141; Cory, 172.**

South America.

ARGENTINA: **Ambrosetti, 16; Chapman, 131; Dabbene, 185, 186, 187, 188; Gibson, 263; Hellmayr, 320; Marelli, 467; Menegaux, 491; Reed, 603.**

PARAGUAY: **Bertoni, 77; Chubb, 144.**

CHILE: **Chapman, 129, 131.**

BOLIVIA: **Chapman, 131, 132; Reichenow, 605.**

PERU: **Chapman, 129, 131, 132; Chubb, 140, 142; Coker, 161; Cory, 172, 173; Hellmayr, 320.**

GALAPAGOS AND COCOS IS., COSTA RICA: **Gifford, 264.**

BRAZIL: **Bangs & Penard, 53; Chapman, 132; Chubb, 140, 142; Cory, 172, 173, 175; Luederwaldt, 448; Ribeira, 611; Teschauer, 752.**

BRITISH GUIANA: **Beebe, 66; Chubb, 140, 142, 144, 146, 147, 149, 150; Penard, 581, 583, 586.**

VENEZUELA: **Cory, 173; Crandall, 180; Hellmayr, 321.**

COLOMBIA: **Bangs & Penard, 53; Chapman, 132; Cory, 172; Hellmayr, 321; Todd, 763.**

Central America.

GENERAL: **Ridgway, 618.**

PANAMA: **Bangs & Penard, 53; Chapman, 129; Rendahl, 608.**

COSTA RICA: **Bangs & Penard, 53; Rendahl, 608; Sclater, 680.**

NICARAGUA: **Rendahl, 608.**

GUATELAMA: **Chubb, 142.**

West Indies.

GENERAL: **Ridgway, 618.**

TOBAGO: **Chubb, 140.**

PORTO RICA: **Wetmore, 789.**

CAYMAN I. AND SWAN I.: **Bangs, 50; Cory, 172.**

NEARCTIC REGION
(including Mexico).

GENERAL AND POPULAR WORKS: **Cory, 172; Gilmore, 270; Moseley, 508; Ridgway, 618.**

Mexico.

Bangs & Penard, 53.

LOWER CALIFORNIA: Dwight, 215; Oberholser, 543, 544, 563.

Western United States.

CALIFORNIA: Carriger & Wells, 124; Dawson, 193; Dixon, 197; Evermann, 230; Grinnell, 283, 284, 285; Hall & Grinnell, 300; Mailliard, 461, 462; Oberholser, 546; Stephens, 712; Van Fleet, 773; Wetmore, 787; Willett, 808.

COLORADO: Bergtold, 75; Bradbury, 94.

WYOMING: Oberholser, 532.

MONTANA: Dubois, 207.

IDAHO: Rust, 645.

OREGON: Willett, 808.

WASHINGTON: Kitchin, 393.

Middle United States.

TEXAS: Oberholser, 528, 562.

LOUISIANA: Bailey, 30, 32; Hunt, 364; Kennard, 386.

MISSISSIPPI: Hunt, 364.

ALABAMA: Holt, 351.

MISSOURI: Harris, 307.

KANSAS: Douthitt, 204.

NEBRASKA: Swenk, 740.

S. DAKOTA: Stephens, 714.

N. DAKOTA: Bailey, 35; Freeman, 248.

MINNESOTA: Roberts, 625, 626.

WISCONSIN: Hollister, 350.

IOWA: Gabrielson, 253; Spurrell, 703; Stephens, 713.

ILLINOIS: Eifrig, 219; Farwell, 234.

INDIANA: Eifrig, 220, 219.

MICHIGAN: Cahn, 117.

OHIO: Doolittle, 203; Earl, 216; Henninger, 326.

Eastern United States.

FLORIDA: Bartsch, 60; Griscom, 286; Howell, 361; Pangburn, 576; Safford, 652; Williams, 809, 812, 813.

GEORGIA: Erichsen, 226.

NORTH CAROLINA: Grinnell, 282; Pearson & Brimley, 580.

DISTRICT OF COLUMBIA: Oberholser, 526, 527, 561; Swales, 738.

PENNSYLVANIA: Burns, 112; Stone, 717.

NEW JERSEY: Miller, 498.

NEW YORK: Raynor, 602; Wright, 830.

MASSACHUSETTS: Allen, 12; Richards, 612; Robbins, 623; Wright, 831.

NEW HAMPSHIRE: Brooks, 99.

Canada.

GENERAL: Taverner, 743.

NOVA SCOTIA: Lewis, 426.

NEW BRUNSWICK: Philipp & Bowdish, 588.

QUEBEC PROV.: Clarke, 153; Mousley, 510.

ONTARIO: Saunders, 655, 656.

MANITOBA: Fleming, 245; O'Donoghue & Gowanlock, 566; Taverner, 747.

SASKATCHEWAN: Fleming, 245; Mitchell, 502.

ALBERTA: Farley, 232; Soper, 700; Taverner, 744.

BRITISH COLUMBIA: Munro, 513, 514; Taverner, 745.

Newfoundland.

Noble, 522.

Greenland.

Ekblaw, 222, 223, 224.

Alaska.

MAINLAND: Blackwelder, 81; Brooks, 100; Hine, 344.

ALEUTIAN IS.: Oberholser, 556.

PRIBILOF IS.: Hanna, 303.

THE OCEANS.

ATLANTIC OCEAN: Garnett, 255.

BERMUDA IS.: Hutchings, 366.

PACIFIC: Heurn, 339.

III.—SYSTEMATIC.

The arrangement of Sharpe's "Hand-list of Birds" is here used; where generic names differ, the name in the Hand-list is prefixed in square brackets.

Full references are given only in the case of new genera and species. In other cases the numeral in Clarendon refers to the List of Titles, where the full reference will be found.

ORDER ARCHÆOPTERYGES.

†*Archaeornis** **gen. n.** for the Berlin example *Archaeopteryx siemensi*, PETRONIEVICS Proc. Zool. Soc. London 1917 p. 5 foot-note.

ORDER RHEIFORMES.

Rhea darwini flexion of leg-joint, VIRCHOW **774**.—*Pterocnemia tarapacensis garleppi* in Catamarca, Argentine, DABBENE **188** p. 259.

ORDER STRUTHIONIFORMES.

Struthio genetics and variation of the germ-plasm, DUERDEN **208**; tarsal callosities, DUERDEN **211**.—*S. camelus* and *S. australis* experiments and results of hybridization, DUERDEN **209, 210**.—*S. camelus syriacus* **subsp. n.** Syrian desert, note on the type-locality of the typical form and key of known forms, ROTHSCHILD Bull. B. O. C. **39** p. 83.

ORDER CASUARIIFORMES.

Dromaeus irroratus not a distinct species, RENSHAW **610**.

ORDER DINORNITHIFORMES.

†*Dinornis robustus* in the Lower Wanganui [tertiary] beds of New Zealand, MARSHALL **468**.

ORDER ÆPYORNITHIFORMES.

†*Æpyornis maximus* note on the egg, BRADBURY **95**

ORDER TINAMIFORMES.

Tinamus tao weddelli taxonomic note, CHUBB **141** p. 6.

* Accidentally omitted from Aves for 1917.

Crypturus idoneus **sp. n.** Colombia, TODD Proc. Biol. Soc. **32** p. 117.—*Crypturellus parvirostris* new to Argentina, DABBENE **188** pp. 260 552.—*C. garleppi affinis* **subsp. n.** Bolivia, CHUBB Ibis **1919** p. 8.

Nothoprocta curvirostris nestling plumage, CHUBB **141** p. 11.

Calopezus elegans formosus caeca figured, CHUBB **141** p. 14.

ORDER GALLIFORMES.

Game birds of India, Burma and Ceylon pts. 26–28 with descriptions of the forms of *Lophophorus* and *Tragopan* and coloured plates of *Lophophorus refulgens* and *Tragopan b. blythi*, BAKER **39**.

List of the Megapodidae with remarks on classification, taxonomy and distribution, SHUFELDT **689**.

Megapodius nicobariensis abbotti **subsp. n.** Great and Little Nicobar Is., OBERHOLSER Proc. U.S. Nat. Mus. **55** p. 401.—*M. tumulus* economic relation to spread of Prickly Pear, BROOKES **98**.

Leipoa ocellata mound-building, habits, ROSS **638**.

Penelope aequatorialis history and nomenclature, CHUBB **141** p. 16.

Chamaepetes goudotii races discussed, *C. g. antioquiana* **subsp. n.** Colombia, CHUBB Ibis **1919** p. 22; *C. fagani* figured with addt. description, *id. ibid* p. 24.

[*Lagopus*] *Tetrao scoticus* scarcity in Scotland, MEADE-WALDO **477**.—*Tetrao* [*scoticus*] *hibernicus* Ireland, *T.* [*S.*] *dresseri* Hebridees **subspp. n.**, KLEINSCHMIDT Falco **15** p. 3.—*L. mutus* habits, etc., etc., in Germany, MERK-BUCHBERG **487**.

Tetrao urogallus, *T. tetrix*, *T. bonasia* field notes and habits in Bavaria, MERK-BUCHBERG **486**.

Tympanuchus cupido formerly occurring nr. Washington D.C., SWALES **738**.—*T. americanus* × *Pedioecetes p. campestris* hybrid, LINCOLN **429**.

Pedioecetes phasianellus present status in Alberta, TAVERNER **744**.

Bonasa umbellus notes on "drumming," TUTTLE **772**.

[*Tetrastes*] *Bonasia bonasia* habits, etc., etc., in Germany, MERK-BUCHBERG **489**

Caccabis hwanghoenis **sp. n.** E. Tibet, REICHENOW J. Ornith. **67** p. 226.

Ammoperdix heyi nicolli **subsp. n.** nr. Cairo, HARTERT Bull. B. O. C. **40** p. 4.

Francolinus chinensis (Müller) name changed to *F. pintadeanus* (Scop.), OBERHOLSER **549** p. 21.—*F. tschadensis* nr. Lake Chad, *F. grotei* S. German E. Afr. **spp. n.**, REICHENOW J. Ornith. **67** p. 334.

Pternistes nudicollis the form occurring in the southern coastlands of German E. Afr. discussed, GROTE **287**.

Arboricola torqueola on a nest and eggs near Simla, WHISTLER **794**.—*A. rufogularis annamensis* S. Annam, p. 403, pl. x, *A. brunneipectus albigula* S. Annam, p. 405, pl. xi, **subspp. n.**, ROBINSON & KLOSS Ibis **1919**.—*A. rolli* in N.E. Sumatra, ROBINSON & KLOSS **633** p. 74.

Excalfactoria c. chinensis occurring Sumatra, ROBINSON & KLOSS **633** p. 75.—*E. c. palmeri* **subsp. n.** Java, RILEY Proc. Biol. Soc. Wash. **32** p. 93.

Galloperdix spadacea stewarti **subsp. n** Travancore with designation of type localities to other races, BAKER Bull. B. O. C. **40** p. 18.

Tragopan caboti note on colour of wattle, ASTLEY **23**.

Gennaeus annamensis plumages, ROBINSON & KLOSS **631** p. 408.

Phasianus on the forms met with in N. China, SOWERBY **701** p. 63 101.—*P. colchicus hemptinnii* **subsp. n.** Hupeh China, LA TOUCHE Bull. B. O. C. **40** p. 51. —*P. versicolor robustipes* Sado I. pp. 299, 309; *P. v. kiusiuensis* Kiusiu pp. 300, 309; *P. v. tanensis* Tanegashima I. pp. 300, 310; *P. soemmerringi subrufus* E. Hondo pp. 303, 311; *P. s. intermedius* N.W. Shikoku pp. 304, 312, all in Japan, KURODA Dobuts. Zasshi **31**.—†*Phasianus augustus* **sp. n.** Upper Miocene of Bavaria, AMMON **17**

[*Calophasis*] *Phasianus humiae burmanicus* ranges to Siam, GAIRDNER **254**.

Gallus gallus nomenclature of species and races, BANGS & PENARD **54**; in the Marquesas Is., TOWNSEND & WETMORE **764**.—†*G. longaevus* **sp. n.** Upper Miocene of Bavaria, AMMON **17**.

Numida sabyi **sp. n.** W. Morocco, and note on Linnaeus' original description of *Phasianus meleagris*, HARTERT Bull. B. O. C. **39** pp. 69 85.

Odontophorus guianensis subspecies reviewed *O. g. simonsi* Bolivia p. 26, *O. g. panamensis* Panama p. 26, *O. g. buckleyi* Eastern Ecuador p. 27 **subspp. n.**, CHUBB Ibis **1919**.—*O. variegatus* **sp. n.** Colombia, TODD Proc. Biol. Soc. **32** p. 116.

ORDER PTEROCLIDIFORMES.

Pteroclurus exustus emini **subsp. n.** N.W. of Victoria Nyanza, REICHENOW J. Ornith. **67** p. 226.—*Pterocles senegallus* on the eggs, JOURDAIN **382**.

Pterocles gutturalis tanganjicae **subsp. n.** E. of Tanganyika, REICHENOW J. Ornith. **67** p. 226.

ORDER COLUMBIFORMES.

The Pigeons of the Gambia, HOPKINSON **353**.

Sphenocercus sphenurus new to Cochin China, ROBINSON & KLOSS **631** p. 412.

Vinago delalandei granti **subsp. n.** Tanganiyka Terr., SOMEREN Bull. B. O. C. **40** p. 20.

Ptilopus coralensis in the Paumatu Is. and other Pacific Island species listed and commented on, TOWNSEND & WETMORE **764** p. 186.

Globicera pacifica figured with description, etc., etc., MATHEWS **471** p. 414 pl. 366.—*G. rubricera* found in Australia, KERSHAW **389** pl. xxxv.—*G. wilkesii* a synonym of *G. aurorae*, p. 190, *G. oceanica townsendi* **subsp. n.** E. Caroline Is. p. 191, WETMORE Bull. Mus. Comp. Zoöl **63**.

Carpophaga œnea ranging north of Bombay, KINNEAR **390**.—*Muscadivores œneus mirtus* distinctive characters, OBERHOLSER **560** p. 479.

Ducula insignis griseicapilla new to French Indo-China, ROBINSON & KLOSS **631** p. 413.

Columba argentina (*C. grisea* auct.) occurring on Pulo Taya I., off Sumatra, OBERHOLSER **557** p. 270.—*C. palumbus*, a blue-green egg, SCHLEGEL **665**; a nest robber, HOFFMANN **347**.—*Oenoenas nigrirostris* taxonomic note, RENDAHL **608** p. 14.

Macropygia emiliana hypopercna correction of orig. descript., OBERHOLSER **560** p. 478.—*M. ruficeps sumatranus* **subsp. n.** N.E. Sumatra, ROBINSON & KLOSS J. Straits Asiat. Soc. **80** p. 77.

Ectopistes migratorius common in southern Quebec Prov. about 1840, MOUSLEY **510** p. 486; history in Pennsylvania, etc., FRENCH **249**.

Zenaida auriculata noronha **subsp. n.** Fernando Noronha I., Brazil, CHUBB Ibis **1919** p. 36.

Turtur ferrago acclimatised in Queensland CHISHOLM **138**.—*Stigmatopelia lugens funebra* **subsp. n.** Kenya Colony, SOMEREN Bull. B. O. C. **210** p. 21.

Chalcophaps indica ranging to Chittur Madras Pres., DAWSON **192**.

Leptoptila verreauxi brevipennis **subsp. n.** Trinidad, CHUBB Ibis **1919** p. 45.

[*Geotrygon*] *Oreopeleia v. violacea* new to Argentina, DABBENE **188** p. 552.

Didus ineptus on a skeleton, CHUBB **151**.—*D. borbonicus* note on history and photograph of an original picture, ROTHSCHILD **639**.

ORDER RALLIFORMES.

[*Limnopardalis*] *Pardirallus rityrhynchus* subspecies noticed, *P. r. tschudii* **subsp. n.** Central Peru, CHUBB Ibis **1919** p. 50.

Hypotaenidia striata reliqua **subsp. n.** Simalur I, Sumatra, OBERHOLSER Proc. U.S. Nat. Mus. **55** p. 476.

Aramides cajanea grahami **subsp. n.** Para, Brazil, CHUBB Ibis **1919** p. 53.

Himantornis haematopus whitesidei on the Welle river, BANNERMAN **57** p. 97.

Porzana pusilla occurs in Java, BARTCH **59**.

Sarothrura rufa ansorgei Angola, *S. r. elizabethae* Uganda **subspp. n.**, SOMEREN Bull B. O. C. **40** p. 20.—*S. somereni* **sp. n.** Bt. E. Africa, BANNERMAN Bull. B. O. C. **40** p. 8, male described, SOMEREN *ibid* p. 28.

Limnobaenus tsingtauensis **sp. n.** Tsingtau China, REICHENOW J. Ornith. **67** p. 225.

Amaurornis phœnicura cleptea addt. examples noted and measured, OBERHOLSER **560** p. 474.

Gallinula tenebrosa colour changes in the bill, ALEXANDER **7**; an albino figured, ALEXANDER **8**.—*G. c. chloropus* colour of soft parts, GARNETT **256**.

Porphyrio pulverulentus osteology, SHUFELDT **690**

ORDER PODICIPEDIDIFORMES.

Life histories of N. American Grebes, BENT **72**.

Podiceps ruficollis vocal duets in courtship, HUXLEY **368**.—*Tachybaptus philippensis* osteology, SHUFELDT **690** p. 98.

[*Dytes*] *Colymbus auritus*, nesting habits in Montana, DUBOIS **207**.

[*Proctopus*] *Podiceps nigricollis* nesting notes in Hertfordshire, OLDHAM **567**; nesting habits and photos, PIKE **590**; colour of soft parts, GARNETT **256**; nesting in Holland, STEENHUIZEN **709**.—*Proctopus nigricollis gurneyi* **subsp. n.** Cape Prov., ROBERTS Ann. Transv. Mus **6** p. 118.

[*Lophœthyria*] *Podiceps cristatus* list of breeding records in Scotland, BAXTER & RINTOUL **61**; breeding in the Forth area, EVANS **228**.

ORDER COLYMBIFORMES.

Life-histories of N. American Loons and Divers, BENT **72**.

[*Colymbus*] *Gavia arctica* on variation and the subspecies, BENT **71**.—*G. pacifica* in New Hampshire, BROOKS **99**.

ORDER SPHENISCIFORMES.

Distribution of Penguins and its geophysical significance, BOUBIER **91**.

Aptenodytes patachonica breeding in captivity, GILLESPIE **269**.

Eudyptila minor destruction at Phillip I., Victoria, GABRIEL **253**

Spheniscus humboldti habits on the Peruvian guano islands, COKER **161** p. 455 pl. 53

ORDER PROCELLARIIFORMES.

Oceanodroma tristrami nesting habits on Laysan I., Hawaiian group, WILLETT **807**.

Fregata measurements and descriptions of the races of Trinidad I., off Brazil, RIBEIRO **611** p. 186.

Puffinus chlororhynchus dichromatism, LOOMIS **442**.—*P. brevicaudatus* destruction at Phillip I., Victoria, GABRIEL **252**.—*P. heinrothi* **sp. n.** Baltic, REICHENOW J. Ornith. **67** p. 225. —*Reinholdia reinholdi* figured with description, etc., etc., MATHEWS **471** p. 421 pl. 367.

Æstrelata hasitata in mid-Atlantic, BANNERMAN **56** p. 10.—*Pterodoma haesitata P. diabolica* are identical with description of original types, BANGS & PENARD **53** p. 21.—*Pterodroma hypoleuca* nesting habits on Laysan I., Hawaiian group, WILLETT **807**.—*Æ. trinitatis and Æ. arminjoniana* measurements and description from Trinidad I., RIBEIRO **611**.—*Pterodoma inexpectata* figured with description, etc., etc., MATHEWS **471** p. 425 pl. 368.

Fulmarus glacialis breeding range in Ireland and elsewhere, LINDNER **431**.

Prion forsteri a list of the sub-species and note on nomenclature, OBERHOLSER **554**.

Pelecanoides garnoti habits and economics on the Peruvian coasts, COKER **161** p. 462.

Diomedea chionoptera figured with description, etc., etc., MATHEWS **471** p. 427 pl. 369.—*D. irrorata* variation and dichromatism, LOOMIS **441**.

[*Thalassogeron*] *Diomedea chrysostoma* recorded from W. Australia, ALEXANDER **7**.

ORDER ALCIFORMES.

The Auks, etc., etc., of North and Middle America monographed, RIDGWAY **618**

Life histories of N. American Auks, BENT **72**.

Uria l. lomvia wrongly recorded from Belgium, DUPOND **212**.

Fratercula arctica wrongly recorded as breeding in Rion I., Gulf of Lyons, HERMITTE **330**.

ORDER LARIFORMES.

The Gulls, etc., etc., of North and Middle America monographed, RIDGWAY **618**.

The Scissorbills and Skuas of Argentina, DABBENE **186**.

[*Hydroprogne*] *Sterna caspia* nesting in Manitoba, O'DONOGHUE & GOWANLOCK **566**; nesting on Lake Huron, SAUNDERS **655**.

Sterna fluviatilis a biometrical study of the eggs, ROWAN and others **642**.—*S. longipennis* in Java, BARTELS **59**.—*S. elegans* status and occurrence in California, GRINNELL **285**.—*Thalasseus bergii rectirostris* (Peale) in the Paumatu Is. a distinct form, TOWNSEND & WETMORE **764** p. 186.—*S. bergii, S. melanauchen, S. anaestheta* nesting notes in Siam, WILLIAMSON **815**.—*Onychoprion fuscatus* nesting notes on the Tortugas, BARTSCH **60**.—*Sterna* sp. bird-cult of Easter Island, ROUTLEDGE **641**.

Anous stolidus nesting notes on the Tortugas, BARTSCH **60**.—*A. s. unicolor* not a valid subspecies, TOWNSEND & WETMORE **764** p. 183.—*A. s. pileatus* on the Tambelan Is., China seas, OBERHOLSER **555** p. 136.

[*Micranous*] *Megalopterus melanogenys* note on nomenclature, TOWNSEND & WETMORE **764** p. 184.

Rynchops nigra pupil a vertical slit, WETMORE **788**.

Larus minutus occurrence in Sweden, LÖNNBERG **436**.—*L. ridibundus* field notes, MAIL **460**.—*L. fuliginosus* supposed occurrence in Belgium, CONTRERAS **168**.—*L. dominicanus* habits on the Peruvian coasts, COKER **161** p. 458.—*L. fuscus affinis* status in the Canaries, BANNERMAN **55** p. 758.—*L. fuscus* and *L. affinis* status and relationship, DWIGHT **214**.—*L. fuscus* × *L. leucopterus, L. marinus* × *L. glaucus* hybrids described, LÖNNBERG **432** **435**.—*L. occidentalis livens* **subsp. n.** L. California, DWIGHT Proc. Biol. Soc. Washington **32** p. 11.—*L. canus brachyrhynchus* in Wyoming, OBERHOLSER **532**.—

L. brachyrhynchus must stand as a subspecies of *L. canus*, OBERHOLSER **529** p. 83.—*L. hyperboreus barrovianus* is a distinct subspecies, OBERHOLSER **553**; a synonym of *L. hyperboreus*, DWIGHT **213**.

Pagophila alba (Gunn.) is correct name for the Ivory Gull, OBERHOLSER **554**.

Catharacta is correct generic name for the Great Skua, OBERHOLSER **537**.

Megalestris skua protection in Shetland, MEADE-WALDO **477**; nesting in the Orkneys, JOURDAIN **379**.

ORDER CHARADRIIFORMES.

The shore birds, etc., etc., of North Middle America mongraphed, RIDGWAY **618**.

Moults and plumage sequence in British waders, JACKSON **372**.

Scolopacinae Canutinae and *Numeniinae* are the subfamilies of *Scolopacidae*, OBERHOLSER **554**.

Haematopus o. ostralegus in Bavaria, LAUBMANN **416**.

Oreophilus ruficollis simonsi **subsp. n.** Bolivia, CHUBB Ibis **1919** p. 262.

[*Lobipluvia*] *Sarciophorus malabaricus* remarks on the nesting habits and eggs, STEWART **716**.

Vanellus vanellus erythristic clutch of eggs, BUNYARD **107**.

Squatarola squatarola individual without a hind toe, BROOKS **99**.

Ochthodromus a review of the genus, OBERHOLSER **545**.—*Pagolla wilsonia beldingi*, Lower California to Peru p. 112; *P. w. cinnamomina* Columbia, to N.E. Brazil on the coast p. 113 **subspp. n.**, RIDGWAY Birds M. and N. Amer. pt. 8 Bull. U.S. Nat. Mus. **50**.

[*Ægialitis*] *Charadrius dubius curonicus* is the race which has occurred on the Pacific coast of N. America, OBERHOLSER **529** p. 559.—*C. d. curonicus and C. d. alexandrinus* nesting habits near Dunkerque, WITHERBY **819** p. 200. —*Æ. meloda* breeding in New England, ROBBINS **623**.—*Æ. alticola* new to Argentina, DABBENE **188** pp. 260 552.—*Charadrius rubricollis* Gmel. must replace *C. cucullatus*, OBERHOLSER **533**.

Recurvirostra avosetta wintering in Holland, OORDT **569 574**.

Numenius arquata breeding in Surrey, GOODALL **275**.—*Phæopus phæopus variegatus* in the Ladrone islands and discussion of the validity of the genus, TOWNSEND & WETMORE **764** p. 178.

Limosa lapponica baueri in the Ellice Is., with discussion of validity of the genus *Vetola*, TOWNSEND & WETMORE **764** p. 180.

Totanus calidris robustus in Iceland, its distinctive characters, SCHIØLER **663**.

Neoglottis **gen. n.** for type *Totanus melanolencus* (Gmel.), RIDGWAY [Bull. U.S. Nat. Mus. No. 50] Birds M. and N. Amer. pt. 8 p. 329.

Heteractitis incanus and *H. brevipes* respective ranges in Pacific islands, TOWNSEND & WETMORE **764** p. 179.—*Heteroscelus brevipes* in the Pribilof Is., new to N. America, HANNA **303**.—*Heteroscelus* Baird is the correct generic name for *H. incanus* (Gmel.), OBERHOLSER **533**.

[*Tringoides*] *Actitis macularia* new to Argentina, DABBENE **188** p. 552.

[*Pavoncella*] *Philomachus* Anon. is the correct generic name for the Ruff, OBERHOLSER **533**.—*Machetes pugnax* an early record for Lincolnshire, MULLENS **511**.

Æchmorhynchus parvirostris on the Paumotu Is., apparently a distinct species, TOWNSEND & WETMORE **764** p. 182.

[*Heteropygia*] *Tringa maculata* first record for Samoa, REICHENOW **605**.

Tringa canutus eggs obtained in N. Greenland, EKBLAW **222**.

[*Pelidna*] *Tringa pygmæa* Schinz is the correct name for the Dunlin (*T. alpina* auct.), LAUBMANN **418**.

Limicola falcinella (Pontop.) is correct name for *L. platyrhyncha* (Temm.) et auct., OBERHOLSER **552** p. 140.

Gallinago, snipe in China, SOWERBY **701** p. 1; migrations in Burma, KENNY **387**.—*G. gallinago* ringing results and migration movements, THIENEMANN **754**.—*G. delicata* nesting in California, EVERMANN **230**.

Scolopax rusticola migration-lines in Europe deduced from ringing experiments, LUCANUS **444**; do they carry their young? EVANS **229**.

[*Crymophilus*] *Phalaropus fulicarius* new to Pennsylvania, STONE **717**.

Phalaropus discussion of the correct type of the genus, LAUBMANN **417**.

Hydrophasianus chirugus osteology, SHUFELDT **690** p. 101.

Asarcia a well-defined genus, OBERHOLSER **554** p. 200.

Cursorius gallicus captured in dept. Calvados, DART **191**.

Orthorhamphus magnirostris scommophorus **subsp. n.** Tambelan Is., S. China Sea, OBERHOLSER Proc. U.S. Nat. Mus. **55** p. 133.

Otis tarda habits, etc., in Germany, MERK-BUCHBERG **490**; position of feet in flight, HESSE **338**.

Otis tetrax distribution, migrations and other habits, ZEDLITZ **833**.

ORDER GRUIFORMES.

Grus grus migration routes in Saxony, HEYDER **341**.—*G. viridirostris* vertebral column, osteology and joint mechanism, VIRCHOW **776**.

Pseudogeranus leucauchen breeding habits in captivity, PORTIELJE **597**.

Anthropoides virgo occ. in Germany discussed, BACMEISTER **29**.

ORDER ARDEIFORMES.

Lampribis rothschildi **nom. n.** pro. *L. olivacea* Reichw. nec Du Bus Prince's I., BANNERMAN Bull B. O. C. **40** p. 6.

Ciconia ciconia old time record of nesting in Scotland, CLARKE **156**.

Ardea goliath breeding habits in capitivity, PORTIELJE **597** photo.—*A. cinerea* Heronries in Somerset, WIGLESWORTH **806**; status in the Canaries, BANNERMAN **55** p. 715.—*A herodias* heronry in Missesota, GUNTHORP **292**.—†*Ardea brunhuberi* **sp. n.** Upper Miocene of Bavaria, AMMON **17**.

Herodias alba and *H. garzetta* present and past distribution of breeding areas in Hungary and protection and preservation, SCHENK **661**.—*Casmerodius albus* on the races, OBERHOLSER **529** p. 557.

Florida caerulea breeding notes in Florida, WILLIAMS **809**.

Notophoyx flavirostris note on plumages and subspecies, CAMPBELL **118** p. 177.

Hydranassa tricolor breeding notes in Florida, WILLIAMS **809**.

Demiegretta s. sacra in the Paumotu, Gilbert and Caroline Is., note on dichromatism, TOWNSEND & WETMORE **764** p. 171.

Nycticorax caledonicus in the Carolines, TOWNSEND & WETMORE **764** p. 172.

Tigrisoma salmoni taxanomic note, CHUBB **141** p. 273.

[*Ardetta*] *Ixobrychus sinensis moorei* **subsp. n.** Caroline Is. and other subspecies listed, WETMORE Bull Mus. Comp. Zoöl. **63** p. 173.

Botaurus stellaris nesting and other habits in Norfolk, TURNER **770 771**.

†*Botaurites avitus* gen. et sp. n. Upper Miocene of Bavaria, AMMON **17**.

ORDER ANSERIFORMES.

Lead poisoning in waterfowl, WETMORE **790**.

Ducks eating echinoderms, CLARK **152**.

Utility Ducks and Geese, HURST **365**.

Anseranas semipalmata remarkable structural characters entitle it to family rank, MILLER **500**.

Sarcidiornis sylvicola new to Venezuela CRANDALL **180**; in Bt. Guiana, PENARD **583**.

Anser, the forms met with in N. China, SOWERBY **701** pp. 85 157.—*A. segetum* and *A. arvensis* heads figured, BOLAM **86** p. 149.—*A. erythropus* breeding in captivity, ST. QUINTIN **647**.

Casarca ferruginea first definite record for Atlantic coast U.S.A., GRINNELL **282**.

Anas platyrhynchos differential sex-migration in New Mexico, LEOPOLD **422**.—*A. rubripes tristis* breeding in Boston Public Gardens, WRIGHT **831**.—*A. superciliosa percna* **subsp. n** Celebes, RILEY Proc. Biol. Soc. Wash. **32** p. 93.

—*A. s. pelewensis* taken in Tonga Is., TOWNSEND & WETMORE **764** p. 175.—*A. undulata* plumage-development, BLAAUW **80**.—†*Anas risgoviensis* **sp. n.** Upper Miocene of Bavaria, AMMON **17**.

Eunetta falcata in the Pribilof Is. new to N. America, HANNA **303**.

Chaulelasmus streperus nesting in L. Austria, BECKER **64**.

Nettion carolinense should stand as a distinct species, OBERHOLSER **529** p. 81.—*N. torquatum* plumage-development, BLAAUW **80**.

Pœcilonetta erythrorhyncha plumage-development, BLAAUW **80**.

Querquedula discors on the down and nest feathers, BUNYARD **106**.—*Q. d. albinucha* **subsp. n.** Louisiana, KENNAN Auk **36** p. 459 pl. xvii.

[*Netta*] *Nyroca rufina* near Elbing in W. Prussia, DOBBRICK **198**.

[*Fuligula*] *Marila collaris* its systematic position and taxonomic relationships, HOLLISTER **349**.

Clangula c. americana and *C. islandica*, distinctive characters, TAVERNER **748**.—*Bucephala c. clangula* colour of soft parts, GARNETT **256**.

Polysticte not *Stellaria* must be used for Steller's Eider, OBERHOLSER **532**.

ORDER PELECANIFORMES.

Phalacrocorax carbo status of colonies in Holland, OORDT **568**; field-notes at Sfax, Tunisia, BÉDÉ **65**.—*P. cristatus* nesting on Belle Isle off Brittany, ABADIE **1**.—*P. bougainvillei, P. vigua, P. gaimardi* habits and economics on the Peruvian coasts, COKER **161** p. 474.—†*P. praecarbo* **sp. n.** Upper Miocene of Bavaria, AMMON **17**.

Plotus anhinga the joints of the vertebrae and their action, VIRCHOW **775**.

Moris is the correct generic name of the Gannets, OBERHOLSER **537**.

Sula bassana its nesting rocks in the Gulf of St. Lawrence, CLARKE **153**.—*S. piscator* and *S. leucogastra plotus* in the Paumotu Is. and discussion of the nomenclature of the Boobies, TOWNSEND & WETMORE **764** pp 167–170.—*S. variegata, S. nebouxi* habits and economic on the Peruvian coasts, COKER **161** p. 466.—*Piscatrix sula* on the polymorphic forms on Trinidad Is., RIBEIRA **611** p. 183.

Phaëthon rubricaudus, nr. the Marquesas, taxonomic note, TOWNSEND & WETMORE **764** p. 166.—*Scaeophæthon rubricaudus rothschildi* is the form occurring off Lower California, OBERHOLSER **529** p. 557.—*Leptophœthon catesbyi* of the Bermudas is a subspecies of *L. lepturus*, OBERHOLSER **529** p. 556.

Pelecanus thagus habits, plumage-changes and economics on the Peruvian coast, COKER **161** p. 486.—*P. erythrorhynchos* in Alberta, FARLEY **232**.

ORDER CATHARTIDIFORMES.

Catharista atrata breeding in captivity with photo, PORTIELJE **597**.

Cathartes aura septemtrionalis and *Catharista urubu* field and other notes in Florida, WILLIAMS **810**.

ORDER ACCIPITRIFORMES.

A revised list of the Accipitres with descriptions, keys, etc., etc. Pts. i, ii, SWANN **739**.

Birds of Prey of the Punjab listed and discriminated with habits, etc., etc., DONALD **201**.

Note on Argentine Hawks, AMBROSETTI **16**.

On the female genital organs in the Falconidæ, KOLLMANN **400**.

Sagittarius serpentarius note on generic name, SCLATER & M.-PRAED **678** p. 707.

Vultur monarchus on supposed occurrence in Sicily, TRISCHITTA **768**.

Gyps fulvus fulvescens in the Sudan, SCLATER & M.-PRAED **679** p. 704.—*G. coprotheres* (Forster) is the oldest name for *G. kolbii* auct., RICHMOND **613** p. 548.

[*Otogyps*] *Torgos tracheliotus nubicus* note on generic and specific names, SCLATER & M.-PRAED **679** p. 706.

Circus hudsonius should stand as a subspecies of the European *C. cyaneus*, OBERHOLSER **529** p. 82.

Micrastur melanolencus buckleyi **subsp. n.** Ecuador, SWANN Synop. List Accipitres p. 15 bis.

Parabuteo unicinctus harrisi in Ohio, EARL **216**.

Melierax metabates races and their ranges, SCLATER & M.-PRAED **679** p. 702.

[*Astur*] *Accipiter gentilis atricapillus* in Co. Tyrone, Ireland, WILLIAMS **814**.

Accipiter nisus effect of sunshine on habits, OWEN **572**.—*A. minullus* list of African races, SCLATER & M.-PRAED, **679** p. 700.—*A. gularis* in Java, BARTELS **59**.

Buteo on the Ethiopian species, *B. jakal archeri* figured in colour p. 252, *B. b. rufiventer* the correct name for *B. desertorun* auct. p. 254, *B. oreophilus* and *B. menetresi* note, SCLATER **674**.—*B. galapagensis* nesting and other habits, GIFFORD **264** p. 190.—*B. erythronotus* note on plumages, CHUBB **141** p. 281.—*B. rufofuscus* (Forster) is the oldest name for *B. jackal* Daud. et auct., RICHMOND **613** p. 549.—*B. buteo* life history in Denmark, HANSEN **304**; commoner in England, JOURDAIN **380**.—*B. buteo zimmermannae* occurrence in Belgium, HAVRE **317**.—*B. rufificaudus* occurrence in Holland, SHOUKAERT **695** p. 18 description and comparison of specimens, HENS **327**.—*B. b. harterti* Madeira p. 43, *B. b. rothschildi* Azores p. 43, *B. b. bannermani* Cape Verde Is. p. 44, *B. abbreviatus minimus*, S. Brazil p. 51 **subspp. n.**, SWANN Synop. List Accipitr.—*B. borealis* polymorphic plumages and economics in Alberta, TAVERNER **744**.

Leucopternis albicollis recorded from Peru, CHUBB **141** p. 283.—*Leucopternis ghiesbreghti costaricensis* **subsp. n.** Costa Rica, SCLATER Bull. B. O. C. **39** p. 76.

Harpia harpyja is the correct name for the S. Amer. Harpy Eagle, OBERHOLSER **534**.

Aquila chrysaetos in Galloway, MAXWELL **476**.—*A. nipalensis orientalis* and *A. p. pomarina*, first African records, SCLATER & M.-PRAED **679** pp. 697–8.—*A. orientalis* on supposed occurrence in Pomerania, TISCHLER **760**.—*A. pomarina* and *A. maculata* occurrence in Switzerland, HESS **334**.

[*Archibuteo*] *Triochis* must replace *Archibuteo* p. 282, not separable from *Buteo* p. 420, OBERHOLSER **534**.

Lophotriorchis isidori plumages of adult and young, CHUBB **141** p. 283.—*Hieraætus ayresi* identical with *L. lucani* description of specimens and coloured plate, FINCH-DAVIES **237**.

Spizaetus batesi **sp. n.** Cameroon, SCLATER Bull. B. O. C. **39** p. 87; = *S. africanus*, CASSIN *id. ibid* p. 93.—*S. nipalensis fokiensis* **subsp. n.** Fokien, China, SCLATER Bull. B. O. C. **40** p. 37.

[*Asturinula*] *Kaupifalco monogrammicus* range of the two races, SCLATER & M.-PRAED **679** p. 695.

Herpetotheres cachinnans queribundus **subsp. n.** Pernambuco Brazil, BANGS & PENARD Bull. Mus. Comp. Zoöl. **63** p. 23.

Pithecophaga jefferyi osteology, SHUFELDT **691**.

Spilornis cheela ricketti Fokien, China, p. 37, *S.c. kinabaluensis* Kinabalu Mt. Borneo p. 37, *S. c. palawanensis*, Palawan I. p. 38 **subspp. n.** with a synopsis of the genus *Spilornis*, SCLATER Bull. B. O. C. **40**.—*S. bassus* (Forster) antedates *S. bacha* (Daud.) et auct., RICHMOND **613** p. 549.

Haliæetus albicilla brooksi is the form of the Sea Eagle occurring in Alaska, OBERHOLSER **529** p. 82.—*H. leucogaster* breeding notes from Dampier Is. and nest photographed, WHITLOCK **802** p. 243.

Thalassoaetus pelagicus in the Pribilof Is. new to N. America, HANNA **303**.

[*Nauclerus*] *Chelictinia riocourii* sexual distinctions and generic name, SCLATER & M.-PRAED **679** p. 691.

Milvus migrans on the Sudanese subspecies, SCLATER & M.-PRAED **679** p. 689.—*M. govinda* wrongly recorded from Provence, France, HERMITTE **330**.

Elanus scriptus figured in colour with notes on nesting habits and other habits, JACKSON **374** WHITE H. L. **796**.

Gampsonyx swainsonii synonymy of the two races, CHUBB **141** p. 287.

Machaerhamphus alcinus recorded from Sumatra, ROBINSON & KLOSS **633** p. 82.

Pernis apivorus the nesting-tree and the voice, HESSE **335**.—*P. celebensis steerei* **subsp. n.** Philippine Is., SCLATER Bull. B. O. C. **40** p. 41.

Falco peregrinus on the alleged occurrence in South Africa, FINCH-DAVIES **238**.—*F. peregrinus*, *F. p. calidus*, *F. p. babylonicus*, *F. p. pelegrinoides* all in Sudan in winter p. 682. *F. p. minor* breeding in Sennar p. 684, *F. subbuteo cuvieri* ranging to Bahr-el-Ghazal p. 685, SCLATER & M.-PRAED **679**.—*F. peregrinus* nesting near Deerfield, Mass., RICHARDS **612**.—*F. peregrinator* and *F. babylonicus* breeding ranges in N.W. India, WHISTLER **795**.—*F. moluccensis bernsteini* **nom. n.** pro *F. m. orientalis* Mey. and Wig. preoccupied, STRESEMANN Anz. Orn. Ges. Bay. **2** p. 8.

ORDER STRIGIFORMES.

Asio flammeus nesting habits in Washington State, KITCHIN **393**.—*A. f. breviauris* (Schlegel) is the name for the Short-eared Owl of southern S. America p. 96, *A. f. sanfordi* **subsp. n.** Falkland Is. p. 97, *A. galapagoensis æquatorialis*, CHUBB = *A. f. bogotensis* Chapman p. 97, BANGS Proc. N. Engl. Zoöl. Cl. **6**.

Bubo uralensis sometimes laying five eggs, SCHLEGEL **664**.—*B. virginianus heterocnemis* and *B. v. wapacutha* both in Massachusetts in winter, ALLEN **12**.—*B. africanus* races commented on, SCLATER & M.-PRAED **679** p. 678.

Syrnium aluco harterti **subsp. n.** Hupeh, China, LA TOUCHE Bull. B. O. C. **40** p. 50.—*Strix varia helveola* is the correct name for the Texas Barred Owl, OBERHOLSER **534**.

[*Athene*] *Carine noctua spilogaster* from the Sudan distinct from *C. n. somaliensis*, SCLATER & M.-PRAED **679** p. 681.—*C. brama fryi* **subsp. n.** S. India, BAKER Bull. B. O. C. **40** p. 60.

Speotyto cunicularia structure of eye and nocturnal habits, WOOD **828**.

Glaucidium nanum, a case of mimicry, KOSLOWSKY **403**.

Strix flammea food investigation, COLLINGE **165**.

ORDER PSITTACIFORMES.

Nestor notabilis note on the food habits, PHILPOTT **589** p. 211.

Choriphilus peruvianus in Cook and other Is., note on nomenclature, WETMORE **764** p. 193.

[*Conurus*] *Eupsittula astec vicinalis* **subsp. n.** Tamaulipas Mexico, BANGS & PENARD Bull. Mus. Comp. Zoöl. **63** p. 24.

Microsittace ferrugineus minor **subsp. n.** S. Chile, CHAPMAN Bull. Amer. Mus. **41** p. 323.

Brotogeris ferrugineifrons note on the type and unique example which should be placed in genus *Bolborhynchus*, MILLER **495**.

Poicephalus crassus second known specimen from the Bahr-el-Ghazal, SCLATER & M.-PRAED **679** p. 676.

[*Palaeornis*] *Conurus fasciatus abbotti* **subsp. n.** Andaman Is., OBERHOLSER Proc. Biol. Soc. Washington **32** p. 29.—*C. f. calus* distinctive characters, OBERHOLSER **560** p. 481.

Polytelis barrabandi avicult. notes, TAVISTOCK **749**.

Platycercus adelaidae note on Gould's type specimen, ASHBY **21**.—*P. flaveolus* food-habits, COLE **162**.—*P. eximius* distribution and plumages of the races, CAMPBELL **121**.

Barnardius zonarius woolundra **subsp. n.** W. Australia, MATTHEWS Bull. B. O. C. **40** p. 44.

[*Psephotus*] *Psephotellus chrysopterygius* figured with description, etc., MATTHEWS **771** p. 431 pl. 370.

[*Nanodes*] *Lathamus discolor* food habits, COLE **162**.

ORDER CORACIIFORMES.

Sub-Order Coraciae.

Eurystomus glaucurus extention of range to the Welle river, BANNERMAN **57** p. 97.—*E. afer* African races reviewed, SCLATER & M.-PRAED **679** p. 673.—*E. calonyx* in Java in winter, BARTELS **59**.

Sub-Order Halcyones.

Ceryle rudis leucomelanura distribution in Siam, GAIRDNER **254**.—*C. alcyon* details of occurrence in Cornwall, STEVENSON **715**.

Alcedo ispida incubation period, KROHN **407**.—*A. megalia* **nom. n.** pro *A. grandis* Blyth, OBERHOLSER **549** p. 22.—*A. meninting* revision of races

p. 36, *A. m. scintillans* Burma p. 38, *A. m. coltarti* Assam p. 39 **subspp. n.**, BAKER Bull. B. O. C. **39**.

Ceyx tridactyla occurrence in Siam, GAIRDNER **254**.

Syma sellamontis **sp. n.** New Guinea, REICHENOW Journ. Ornith. Leipzig **67** 1919 p. 334.

Halcyon badia budongensis **subsp. n.** Uganda, SOMEREN Bull. B. O. C. **40** p. 28.—*H. malimbicus* review of the races p. 699, *H. cyanoleucus* and *H. senegalensis* relations discussed p. 670, SCLATER & M.-PRAED **679**.—*H. miyakoensis* **sp. n.** Miyakoshima, Loochoo Is., KURODA Dobats. Zasshi **31** p. 231.—*Sauropatis sacra rabulata* Eua, Tonga Is. p. 197, *S. s. celada* Vavau Tonga Is. p. 198, **subspp. n.** *S. s. sacra* Tongatabu, Tonga Is., the type locality p. 196, WETMORE Bull. Mus. Comp. Zoöl. **63**.—*H. sanctus*, encounter with a snake, MELLOR **483**.—*H. chloris* on the status of the Malayan races recently described, ROBINSON **628** p. 327.—*Sauropatis chloris* revision of subspecies p. 353, *S. c. palmeri* Java p. 369; *S. c. azela* Engano I., Sumatra, p. 377; *S. c. chloroptera* Simalur I., Sumatra, p. 379; *S. c. amphiryta* Nias I., Sumatra, p. 382; *S. c. hyperpontia* New Hebrides p. 387 **subspp. n.**, OBERHOLSER Proc. U.S. Nat. Mus. **55**.—*Ramphalcyon capensis simalurensis* taxonomic note, OBERHOLSER **560** p. 485.

Rhamphalçyon its taxonomic position, OBERHOLSER **552** p. 140.

Todirhamphus wiglesworthi Sharpe a synonym of *T. tutus* (Gm.), TOWNSEND & WETMORE **764** p. 199.

Sub-Order Bucerotes.

Platycorax **gen. n.** for type *Buceros semigaleatus* Tweeddale, OBERHOLSER J. Wash. Acad. Sci. **9** p. 167.

Sub-Order Upupae.

Upupa epops the Canarian forms discussed, BANNERMAN **55** p. 472.—*U. e. butleri* on this and other races in the Sudan, SCLATER & M.-PRAED **679** p. 665.

Scoptelus aterrimus note on the racial forms, SCLATER & M.-PRAED **679** p. 664.

Sub-Order Meropes.

Melittophagus boleslawskii a yellow-throated phase of *M. b. frenatus*, SCLATER & M.-PRAED **679** p. 663.

[*Merops*] *Melittophagus mulleri yalensis* **subsp. n.** Uganda, SOMEREN Bull. B. O. C. **40** p. 26.—*M. apiaster* first record from Vendée, France, SEGUIN-JARD **684**.

Sub-Order Momoti.

Momotus pilcomajensis **sp. n.** S. Bolivia, REICHENOW J. Ornith. Leipzig **67** p. 334.

Sub-Order Caprimulgi.

The Goatsuckers of Egypt, KOENIG **399** p. 431.

Scotornis climacurus geographical races in western and north-eastern Africa, SCLATER & M.-PRAED **679** p. 657.

Cosmetorius vexillarius type locality Sierra Leone, SCLATER & M.-PRAED **679** p. 659.

[*Caprimulgus*] *Setochalsis noctitherus* **sp. n.** Porto Rica, WETMORE Proc. Biol. Soc. Wash. **32** p. 235.—*C. nubicus taruensis* **subsp. n.** Taru desert, *C. keniensis* **sp. n.** Mt. Kenia, SOMEREN Bull. B. O. C. **40** p. 25.—*C. batesi* ranges to the Welle river, BANNERMAN **57**.—*C. bimaculatus* Peale revived by Oberholser not valid, ROBINSON & KLOSS **633** p. 90.

Sub-Order Cypseli.

The Swifts of Egypt, KOENIG **399** p. 442.

Collocalia list of forms in Berlin Mus. p. 108, *C. uropygialis heinrothi* **subsp. n.** Neu-Meckenburg (New Ireland) p. 110, NEUMANN Orn. Monatsb. **27**.—*C. innominata* and *C. linchi cyanoptila* new to Sumatra, ROBINSON & KLOSS **633** p. 90.

Chaetura caudacuta note on first British example, captured in Essex in 1846, CHUBB **147**; clinging to a vertical wall, FINCKH **240**; migration movements in Tasmania, DOVE **205**.

Cypselus apus breeding habits, BACMEISTER **28**; *Apus apus* late stay in British Isles, ALEXANDER **6**; England, BUTTERFIELD **115**.—*A. apus* migration

dates in Holland, SWAEN **737**.—*Micropus a. kollibayi*, *M. m. melba* in the Sudan, SCLATER & M.-PRAED **679** pp. 651 652.—*M. murinus brehmorum* and *M. u. unicolor* migration-dates in the Canaries, BANNERMAN **55** pp. 460 465.—*M. subfurcatus* nesting habits in Mindoro P.I., WORCESTER **829**.—*M. somalicus* **sp. n.** Somaliland, CLARKE Bull. B. O. C. **40** p. 49.—*Apus nakuruensis* **sp. n.** Nakuru Kenia Colony, SOMEREN Bull. B. O. C. **40** p. 58.—*M. peruvianus* **sp. n.** Peru, CHAPMAN Proc. Biol. Soc. **32** p. 253 2 figs.

Sub-Order Trochili.

Metallic colouration and sexual selection and relations in humming-birds, BECHER **63**.

Heteroglaucis for *Trochilus ruckeri* Bourcier; *Anopetia* for *Phaethornis geunellei* Boucard, *Cosmorrhipis* for *Lophornis pavoninus* Salv. and Godm. *Lithiophanes* for *Lophornis insignibarbis* Simon, *Cyanolampis* for *Trochilus doubledayi* Bourcier, all p. 52; *Chlorurania* for *Trochilus glaucopis* Gmel.; *Hypochionis* for *Ornismyia cyanocephala* Less.; *Leuconympha* for *Trochilus viridipalleus* Bourc. et Muls.; *Prodosia* for *Oreopyra hemileuca* Salv.; *Smaragdochroa* for *Heliodoxa jacula* Gld.; *Gnaphocercus* for *Trochilus adela* d'Orb. et Lafresn.; *Haplophaedia* for *Trochilus aureliae* B. and M.; *Selatopogon* for *Trochilus ruficeps* Gould all p. 53; *Tephrolesbia* for *Cynanthus griseiventris* Tacz.; *Piocercus* for *Trochilus elizae* Less. et Delattre p. 54 **genn. n.**, SIMON Rev. Franç. d'Orn. **6**.

Phoctornis eurynome new to Argentina, DABBENE **188** p. 533.

Agyrtria v. versicolor new to Argentina, DABBENE **188** p. 553.

Pterophanes cyanopterus (Fraser) must replace *P. temminckii* Boiss. preoccupied, BANGS & PENARD **53** p. 24.

Stephanoxis loddigesi new to Argentina, DABBENE **188** p. 533.

Sub Order Colii.

Colius striatus Sudanese races discussed, SCLATER & M.-PRAED **679** p. 649.—*C. striatus mombassicus*, nr. Mombasa, p. 26, *C. s. ugandensis* Uganda p. 26, *C. s. kikuyensis* C. Kenya Colony p. 27, *C. leucocephalus turneri* Kenya Colony p. 27, **subspp. n.**, SOMEREN Bull. B. O. C. **40**.—*Urocolius macrurus griseogularis* **subsp. n.** central lake district Uganda, SOMEREN Bull. B. O. C. **40** p. 27.

ORDER TROGONES.

Trogon melanocephalus taxonomy and subspecies, critical remarks, RENDAHL **608** p. 18.

Pyrotrogon erythrocephalus annamensis **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 424.

ORDER COCCYGES.

Sub-Order Musophagi.

Musophaga v. rossæ recorded from the Bahr-el-Ghazal, SCLATER & M.-PRAED **679** p. 648.

Sub-Order Cuculi.

[*Coccystes*] *Clamator glandarius* perhaps breeding in the Sudan, SCLATER & M.-PRAED **679** p. 641; found in Denmark, FERDINAND **236**.

Pachycoccyx varius occurs in the Bahr-el-Ghazal, SCLATER & M.-PRAED **679** p. 642.

Cuculus c. canorus adult killing nestling birds, HEADLEY **319**; curious incident in egg-laying, HOWARD **360**; foster parents and number of eggs, BUTTERFIELD **115**; nesting-habits and experiments, CHANCE **127**; fostered by Greenfinches, TICEHURST **759**; observations in Belgium, MAIRLOT **463** PAQUE **577**.—*C. c. bangsi* **nom. n.** pro *C. c. minor* Brehm, OBERHOLSER **549** p. 22.—*C. optatus* habits and sexual differences [in Japanese], KAWAGUCHI **385**.—*C. solitarius*, *C. jacksoni* and *C. mabirae* taxonomy and relationships, SCLATER & M.-PRAED **679** p. 644.

Penthoceryx sonnerati revision of races p. 45, *P. s. waiti* **subsp. n.** Ceylon p. 47, BAKER Bull. B. O. C. **39**.

Cercococcyx mechowi wellsi **subsp. n.** Cameroon, BANNERMAN Bull. B. O. C. **40** p. 7.

Cacomantis castaneiventris figured MATHEWS **471** pl. 366.

Coccyzus minor caymanensis **subsp. n.** Cayman I., W.I., CORY Cat. Bds. America p. 336.—*C. melanocoryphus*, nesting and other habits in the Galapagos, GIFFORD **264** p. 195.

Urodynamis taitensis parasitic on the Noddy? TOWNSEND & WETMORE **764** p. 194.

Eudynamys scolopacea is the oldest name for the Indian Black Cuckoo, PENARD **584**.

[*Centropus*] *Polophilus phasianinus melvillensis* **subsp. n.** Melville I., N. Australia, MATHEWS Bds. Austr. **7** p. 391.—*C. rectunguis* and *C. nigrorufus*, taxonomic note on these Malayan species, STRESEMANN **726**.—*C. grilli*, *C. fischeri* and *C. senegalensis* in the Sudan discussed, SCLATER & M.-PRAED **679** p. 645.—*C. efulensis neumanni* note on additional examples and description of nestling, BANNERMAN **57**.

Rhopodytes tristis type locality and taxonomy, ROBINSON & KLOSS **631** p. 427.

Rhinortha chlorophœa fuscigularis **subsp. n.** Sarawak, BAKER Bull. B. O. C. **39** p. 77.

Carpococcyx renauldi in Siam, second recorded example, BAKER **38**.

ORDER SCANSORES.

Sub-Order Indicatores.

Prodotiscus regulus regulus in the Sudan, colour of tail feathers, SCLATER & M.-PRAED **679** p. 640.

Sub-Order Capitones.

Lybius leucocephalus and *L. senex* district species, SCLATER & M.-PRAED **679** p. 635.

[*Barbatula*] *Pogoniulus chrysoconus schubotzi* taxonomic note, SCLATER & M.-PRAED **679** p. 637.

[*Chotorhea*] *Cyanops mystacophanes aurentiifrons* **subsp. n.** Siam, ROBINSON & KLOSS J. N. H. Soc. Siam **3** p. 100.

Cyanops oorti annamensis and *C. franklini auricularis* **subspp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 428.—*Megalaema lagrandieri* re-described from Annam, ROBINSON & KLOSS **631** p. 429.

Thereiceryx faiostricta or the Siamese form, BAKER **38**.—*T. lineatus* four races recognised p. 213, *T. faiostricta* nomenclatural note and races p. 215, BAKER **40**.

Mesobucco duvauceli stuarti **subsp. n.** Siam, ROBINSON & KLOSS J. N. H. Soc. Siam **3** p. 100.—*Cyanops duvauceli* list of races, BAKER **40** p. 217.

Xantholaema haemacephala synonymy of the two races recognised, BAKER **40** p. 219.

Sub-Order Galbulae.

On the deep plantar tendons, MILLER **496**.

Sub-Order Buccones.

On the deep plantar tendons, MILLER **496**.

[*Bucco*] *Nystalus maculatus nuchalis* **subsp. n.** Ceara, Brazil, CORY Cat. Bds. Americas p. 398.

Nonnula frontalis pallescens **subsp. n.** Colombia, TODD Proc. Biol. Soc. **32** p. 116.

Monasa nigra (Müll.) name changed to *M. atra* (Bodd.), OBERHOLSER **549** p. 22.

Sub-Order Pici.

[*Colaptes*] *Soroplex campestris cearae* **subsp. n.** Ceara, Brazil, CORY Cat Bds. Americas p. 414.

[*Gecinus*] *Picus viridis dofleini* Macedonia, *P. v. romaniae* Roumania **subspp. n.**, STRESEMANN Anz. Orn. Ges. Bay. No. 1 p. 5.—*P. vittatus* on the subspecies in Siam, BAKER **38** pp. 420–422.—*P. xanthopygius* (Bp.) is the correct name for *Gecinus striolatus* (Blyth), et auct. OBERHOLSER **549** p. 8.—*P. canus* revision of Oriental races p. 183, *P. c. ricketti* **subsp. n.** Fokien, China, p. 187, *P. vittatus* two races recognised p. 189, *P. erythropygius* races p. 190, BAKER Ibis **1919**.—*G. c. microrhynchus* S.W. Siam p. 12, *G. vittatus connectens* Langkawi I. p. 13 **subspp. n.**, ROBINSON & KLOSS Bull. B. O. C. **40**.—*G. c. jacobsii* **subsp. n.** Hupeh, China, LA TOUCHE Bull. B. O. C. **40** p. 50.—*Brachylophus chlorolophus vanheysti* **subsp. n.** Sumatra, ROBINSON & KLOSS J. Straits Asiat. Soc. No. 80 p. 97.—*Brachylophus chlorolophoides* taxonomic note, ROBINSON & KLOSS **631** p. 433.

Chloronerpes rubiginosus roraimæ **subsp. n.** Roraima Bt. Guiana, PENARD Proc. N. Engl. Zoöl. Cl. **7** p. 29.

Campethera punctuligera (Wagl.) is correct name for *C. punctata* (Valenc.) et auct., OBERHOLSER **549** p. 8.—*Dendromus hargitti* a synonym of *Campethera punctata balia*, SCLATER & M.-PRAED **679** p. 629.—*Campethera abingoni chrysurus* new to the Sudan, SCLATER & M.-PRAED **679** p. 630.

Chrysoptilus melanochlorus juae Ceara, Brazil, p. 444; *C. punctigula notata* Colombia p. 446 **subspp. n.**, CORY Cat. Bds. Americas.

[*Chrysoplegma*] *Collophus miniatus perlatus* Kloss probably = *C. m. malaccensis*, BAKER **40** p. 193.—*Chrysophlegma flavinucha lylei* Kloss, probably = *C. f. pierrei*, BAKER **40** p. 192.

Gauropicoides rafflesi three races recognized, BAKER **40** p. 209.

Melanerpes erythrocephalus erythrophthalmus Silloway revived for a distinct form from west-central U.S.A., OBERHOLSER **541**.

[*Dendropicus*] *Dryobates major* and *D. minor* on the "drumming," HUXLEY **367**.—*D. major italiae* Italy p. 9; *D. m. candidus* Rumania p. 10 **subspp. n.**, STRESEMANN Anz. Orn. Ges. Bay. No. **2**.—*D. m. balcanicus* **subsp. n.** Macedonia, GENGLER & STRESEMANN Anz. Orn. Ges. Bay. No. 1 p. 3.—*D. leucotos stechowi* **subsp. n.** Lithuania, SACHTLEBEN Verh. Orn. Ges. Bay. **14** p. 181.

Picoides arcticus nest and eggs photographed and described, PHILIPP & BOWDISH **588** p. 40.

Dendropicos elachus **nom. nov.** pro *D. minutus* (Temm.) preoccupied, OBERHOLSER **549** p. 8.—*D. pœcilolaemus* new to the Sudan, SCLATER & M.-PRAED **679** p. 630.

Iyngipicus pygmaeus clementii **subsp. n.** Hupeh, China, LA TOUCHE Bull. B. O. C. **40** p. 51.—*Y. mitchellii* (Malh.) is the correct name for *Y. pygmaeus* (Vig.) p. 7, *Y. moluccensis* (Gm.) for *Y. auritus* (Eyton) p. 8, OBERHOLSER **549**.—*I. canicapillus* note on the races, BAKER **40** p. 192.—*I. canicapillus suffusus* **subsp. n.** Malay Peninsula, ROBINSON & KLOSS Bull. B. O. C. **40** p. 14.

Venilliornis chocoensis **sp. n.** Colombia, TODD Proc. Biol. Soc. **32** p. 114.

Mesopicos goertae abessinicus races reviewed, SCLATER & M.-PRAED **679** p. 632.

Micropternus brachyurus discussion of races, BAKER **40** p. 197, ROBINSON **627**.

Tiga javanensis and *T. shorei* species and subspecies discussed, BAKER **40** p. 205.

Celeus elegans approximans **subsp. n.** N. Brazil, CORY Cat. Bds. Americas p. 450 col. pl.—*C. innotatus degener* **subsp. n.** Colombia, TODD Proc. Biol, Soc. **32** p. 116.

Crocomorphus flavus peruvianus **subsp. n.** N. Peru, CORY Cat. Bds. Americas p. 457.

Chrysocolaptes strictus chersonesus note on affinities and status, ROBINSON **627**.—*C. guttacristatus* only two races recognizable, ROBINSON & KLOSS **631** p. 438; further discussion of races, BAKER **40** p. 194.

Ceophloeus lineatus mesorhynchus critical note on subspecific forms, RENDAHL **608** p. 21.

[*Dryotomus*] *Phlœotomus pileatus abieticola* nesting habits in California, CARRIGER & WELLS **124**.

[*Picus*] *Dryocopus martius* supposed occurrence in Sicily, TRISCHITTA **769**.

Sasia species and subspecies listed, BAKER **40** p. 210.

Jynx torquilla anatomy of brain and systematic position, DENNLER **194**; field notes and nesting habits, STANFORD **707**.

ORDER EURYLÆMIFORMES.

Serilophus lunatus stolidus **subsp. n.** Peninsular Siam, ROBINSON & KLOSS Bull. B. O. C. **40** p. 16.

Eurylaimus javanicus brookei, *E. ochromelas kalamantan* **subspp. n.** Borneo, ROBINSON & KLOSS Bull. B. O. C. **40** p. 15.

ORDER MENURIFORMES.

The following described and figured: *Menura novaehollandiae*, pls. 363–4, *Harriwhitea alberti* pl. 365, MATHEWS **471**.

ORDER PASSERIFORMES.

Fam. Pteroptochidae.

Scytalopus niger new to Argentina distinctive characters and distribution, Dabbene **188** p. 262 554.

Fam. Conopophagidae.

Conopophaga lineata anomala in Argentina, Dabbene **188** p. 555.

Fam. Formicariidae.

[*Thamnophilus*] *Hypœdaleus guttatus rodriguezianus* new to Argentina, Dabbene **188** p. 555.—*Taraba major approximans* **subsp. n.** Ceara, Brazil, Cory Auk **36** p. 88.—*Erionotus cearensis* **sp. n.** Ceara, Brazil, Cory Auk **36** p. 88.

Poliolaema **gen. n.** for type *Myrmotherula cinereiventris* Scl. and Salv., Chubb Bull. B. O. C. **39** p. 42.

Formicivora ferruginea new to Argentina, Dabbene **188** p. 555.—*Drymophila richmondi* **nom. n.** pro *Formicivora ochropyga* Hellmayr preoccupied, Cory Auk **36** p. 88.

Pithys Vieill. 1916 is antedated by *Manikup* Desm. 1805, Chubb **142** p. 42.

Rhopoterpe Cab. 1847 is antedated by *Myrmornis* Herm. 1783, Chubb **145**.

Stictomyrmornis **gen. n.** for type *Hypocnemis naevia* (Gmel.), Chubb Bull. B. O. C. **39** p. 59.

Grallaria varia imperator new to Argentina, Dabbene **188** p. 556.—*G. alticola* **sp. n.** Colombia, Todd Proc. Biol. Soc. **32** p. 115.—*G. watkinsi* **sp. n.** Peru, Chapman Proc. Biol. Soc. **32** p. 255.—*Hylopezus perspicillatus pallidior* **subsp. n.** Colombia, Todd Proc. Biol. Soc. **32** p. 115.

Grallaricula boliviana **sp. n.** Bolivia, Chapman Proc. Biol. Soc. Wash. **32** p. 257.

Fam. Dendrocolaptidae.

The proposed division of the Family Dendrocolaptidæ into four—Furnariidæ, Synallaxidæ, Xenopidæ and Dendrocolaptidæ, Chubb **139**.

Geositta review of Argentine forms with key, Dabbene **185** p. 113.

Furnarius cristatus and *F. rufus* nests described and figured, Doello-Jurado **200**.—*F. agnatus endoecus* **subsp. n.** N.W. Venezuela, Cory Auk **36** p. 89.

Upucerthia dumetoria hallinani **subsp. n.** S. Chile p. 324, *U. dabbenei* **sp. n.** Tucuman, Argentina p. 325, Chapman Bull. Amer. Mus. **41**.

Cinclodes review of the Argentine forms with key, Dabbene **185** p. 151.—*C. fuscus tucumanus* **subsp. n.** Tucuman, Argentina, Chapman Bull. Amer. Mus. **41** p. 326.—*C. neglectus* **sp. n.** W. Peru, Cory Auk **36** p. 89.

Leptasthenura andicola exterior Colombia, Todd Proc. Biol. Soc. **32** p. 115.—*L. punctigula* **sp. n.** Tucuman, Argentina, *L. andicola peruviana* **subsp. n.** Peru, Chapman Bull. Amer. Mus. **41** p. 327.

Synallaxis ruficapilla new to Argentina, Dabbene **188** p. 557.—*S. stictothorax piurae* **subsp. n.** Peru, Chapman Proc. Biol. Soc. Wash. **32** p. 257.—*S. peruviana* **sp. n.** Peru p. 274, *S. frontalis juae* Ceara, Brazil, *S. gujanensis huallagae* Peru p. 274, *S. semicinerea pallidiceps* Ceara, *S. scutata neglecta* Ceara p. 275 **subspp. n.**, Cory Auk **36**.—*S. macconnelli* **sp. n.** Bt. Guiana, Chubb Bull. B. O. C. p. 78.—*S. albigularis josephinae* **subsp. n.** Bt. Guiana, Chubb Bull. B. O. C. **39** p. 60.—*S. brachymus chapmani* **subsp. n.** Colombia, and note on synonymy of other forms, Bangs & Penard Bull. Mus. Comp. Zoöl. **63** p. 25.

Siptornis review of the species with key, Cory **176**.—*S. urubambensis* **sp. n.** Peru, *J. punensis rufala* **subsp. n.** Tucuman, Argentina, Chapman Bull. Amer. Mus. **41** p. 328.—*S. maculicauda* new to Argentina, *S. ruticilla* also found in Argentina, Dabbene **188** p. 556.

Cranioleuca reeview of the species with key, Cory **176**.

Pseudosiptornis **gen. n.** for type *Siptornis oltonis* Berlepsch, Cory Proc. Biol. Soc. Wash. **32** p. 150.

Siptornopsis **gen. n.** for type *Siptornis hypochondriacus* Salvin, Cory Proc. Biol. Soc. Wash. **32** p. 150.

Siptornoides **gen. n.** for type *Siptornis flammulata* Jardine, CORY Proc. Biol. Soc. Wash. **32** p. 150.

Eusiptornoides **subg. n.** for type *Siptornis anthoides* King, CORY Proc. Biol. Soc. Wash. **32** p. 150.

Pseudocolaptes boissoneautii oberholseri **subsp. n.** Ecuador, CORY Auk **36** p. 275.—*P. b. medianus* **subsp. n.** N. Peru, HELLMAYR Anz. Orn. Ges. Bay. No. **1** p. 3; also Verhandl. **14.** p. 129.

Phacellodomus striaticeps griseipectus **subsp. n.** Peru, CHAPMAN Proc. Biol. Soc. **32** p. 258.

Automolus turdinus macconnelli **subsp. n.** Bt. Guiana, CHUBB Bull. B. O. C. **39** p. 60.—*A. leucophthalmus bangsi* **subsp. n.** Brazil, CORY Auk **36** p. 540.

Hylocryptus **gen. n.** for type *H. erythrocephalus* **sp. n.** Peruvian Ecuador boundary, CHAPMAN Proc. Biol Soc. **32** pp. 258–9 fig. 3.

Philydor erythrocercus guianensis Bt. Guiana p. 60, *P. atricapillus pallidior* Paraguay p. 61 **subsp. n.**, CHUBB Bull. B. O. C. **39.**

Euphilydor **subg. n.** for type *Philydor lichtensteini* Cab. and Heeine CORY Auk **36** p. 273.

Heliobletus superciliosus new to Argentina, DABBENE **188** p. 557.

Xenicopsoides **subgn. n.** for type *Anabazenops variegaticeps* Scl., CORY Auk **36** p. 273.

Xenops genibarbis cayoensis **subsp. n.** Bt. Honduras, CHUBB Bull B. O. C. **39** p. 52.—*X. rutilus connectens* **subsp. n.** Bolivia, CHAPMAN Proc. Biol. Soc. Wash. **32** p. 259.

Sclerurus mexicanus certus Guatemala, *S. m. macconnelli* Bt. Guiana, *S. m. peruvianus* E. Peru all p. 41, *S. m. bahiae* Bahia, Brazil, p. 42 **subspp. n.**, CHUBB Bull. B. O. C. **39.**

Dendrocincla longicauda guianensis **subsp. n.** Bt. Guiana, CHUBB Bull. B. O. C. **39** p. 61.—*D. bartletti* **sp. n.** E. Peru p. 51, *D. fuliginosa wallacei* **subsp. n.** Para, Brazil, p. 52, CHUBB Bull. B. O. C. **39.**—*D. lafresnayei christiani* **subsp. n.** Colombia, BANGS & PENARD Bull. Mus. Comp. Zoöl. **63** p. 25.

Deconychura typica minor **subsp. n.** Colombia, TODD Proc. Biol. Soc. **32** p. 116.

[*Dendrornis*] *Xiphorhynchus triangularis bangsi* **subsp. n.** Bolivia, CHAPMAN Proc. Biol. Soc. Wash. **32** p. 260.

Xiphocolaptes bahiae **sp. n.** Brazil, CORY Auk **36** p. 540.

Picolaptes Lesson note on taxonomy and proper usage of this name, CHUBB **145.**—*P. affinis lignicida* **subsp. n.** Tamaulipas Mexico, BANGS & PENARD Bull. Mus. Comp. Zoöl. **63** p. 26.—*P. fuscus koenigswaldianus* synonymy etc., etc., DABBENE **188** pp. 266 557.—*Thripobrotus layardi madeirae* Brazil p. 261, *T. warsceniczi bolivianus* Bolivia p. 262 **subspp. n.**, CHAPMAN Proc. Biol. Soc. Wash. **32.**

Dendrocolaptes picumnus cearensis **subsp. n.** Brazil, CORY Auk **36** p. 541.

FAM. TYRANNIDAE.

Mecocerculus leucophrys notatus **subsp. n.** Colombia, TODD Proc. Biol. Soc. **32** p. 114.—*M. subtropicalis* **sp. n.** Peru, CHAPMAN Proc. Biol. Soc. **32** p. 262.

Knipolegus comatus (Licht.) name changed to *K. lophotes* Boie, OBERHOLSER **549** p. 127.

Muscisaxicola macloviana mentalis Orb. and Lafr revived with historical note on type p. 26, *M. albilora* taxonomic note p. 27, BANGS & PENARD **53.**

Rhynchocyclus list of species and subspecies with geographical distribution and diagnoses in many cases, CORY **177.**

Euscarthmus gularis (Temm.) name changed to *E. rufilatus* Hartl., OBERHOLSER **549** p. 128.

Microcochlearius **gen. n.** for type *Euscarthmus josephinae* Chubb, CHUBB Bull. B. O. C. **39** p. 98.

Lophotriccus macconnelli **sp. n.** Bt. Guiana, CHUBB Bull. B. O. C. **39** p. 90.

[*Orchilus*] *Perissotriccus ecaudatus miserabilis* **subsp. n.** Bt. Guiana, CHUBB Ann. Mag. N. H. (9) **4** p. 301.

[*Colopteryx*] *Atalotriccus griseiceps whitelyanus* **subsp. n.** Bt. Guiana, CHUBB Ann. Mag. N. H. (9) **4** 1919 p. 301.

Serpophaga helenae **sp. n.** Bt. Guiana, CHUBB Bull. B. O. C. **40** p. 61.

Anaeretes agraphia **sp. n.** Peru, CHAPMAN Proc. Biol. Soc. Wash. **32** p. 263.

Tachuris Lafresn. has priory of *Cyanotis* Swains. and must be used, BANGS & PENARD **53** p. 28.

Mionectes striaticollis columbianus **subsp. n.** Colombia, CHAPMAN Proc. Biol. Soc. Wash. **32** p. 264.—*Pipromorpha oleagina wallacei* L. Amazon valley p. 301, *P. o. hauxwelli* E. Peru and E. Ecuador p. 302, *P. o. chapmani* Colombia p. 302, *P. o. tobagensis* Tobago W.I. p. 302, *P.o. macconnelli* Guiana p. 303, *P. o. roraimae* Mts. of Bt. Guiana p. 303 **subspp. n.**, CHUBB Ann. Mag. N. H. (9) **4**.

Blœnia flavogaster macconnelli, E, cristata whitelyi **subspp. n.** Bt. Guiana, CHUBB Ann. Mag. N.H. (9) **4** p. 304.

Legatus albicollis successor Bt. Guiana, *L. variegatus nevagans* Panama **subspp. n.**, CHUBB Bull. B. O. C. **40** p. 43.

Myiodynastes solitarius duncani **subsp. n.** Bt. Guiana, CHUBB Bull. B. O. C. **40** p. 62.

Myiobius semiflavus **sp. n.** Colombia, TODD Proc. Biol. Soc. **32** p. 114.

Pyrocephalus nanus and *P. dubius* nesting and other habits on the Galapagos Is., GIFFORD **264** p. 197.

[*Blacicus*] *Myiochanes ardosiacus cineraceus* (Lafresn.) must replace *M. a. polioptilus* Todd as Lafresnay's name has been hitherto misapplied, BANGS & PENARD **53** p. 29.

Planchesia pullata **nom. n.** pro *P. fusca* (Bodd.) invalidated, PENARD **585**.

Myiarchus ferox synopsis of races, OBERHOLSER **540**.—*M. lawrencei* on the race found in Costa Rica, RENDAHL **608** p. 25.

Eribates magnirostris nesting and other habits on the Galapagos Is., GIFFORD **264** p. 200.

FORM PIPRIDAE.

Pipra erythrocephala flammiceps, P. velutina minuscula **subspp. n.** Colombia, TODD Proc. Biol. Soc. **32** p. 115.

FORM COTINGIDAE.

Attila cinereus (Gm.) name changed to *A. rufus* Lafres. OBERHOLSER **549** p. 127.

FORM PITTIDAE.

[*Hydrornis*] *Pitta nipalensis soror* plumages, ROBINSON & KLOSS **631** p. 442.

Pitta atricapilla Lesson Philippine Is. antedated by *P. sordida* (Müller), OBERHOLSER **549** p. 239.

FAM. HIRUNDINIDAE.

The Swallows of Egypt monographed, KOENIG **399** p. 455.

[*Chelidonaria*] *Chelidon urbica* nesting in cliffs in Switzerland, BÄCHLER **25** p. 327; *Delichon urbica* migration dates in the Canaries, BANNERMAN **55** p. 317.

[*Clivicola*] *Cotyle riparia* nesting in sand cliffs near St. Gallen, BÄCHLER **25** p. 339.—*Riparia p. chinensis* (Gray) must replace *R. p. sinensis* (Jerd.) preoccupied, OBERHOLSER **549** p. 239.

Ptyonoprogne rupestris occurrence and status in Bavaria, LINDNER **430**; *Riparia rupestris* occurrence in the Tyrol, BÜSING **113**.

[*Tachycineta*] *Iridoprocne bicolor* early arrival dates at Plymouth, Mass., FARLEY **233**.

Hirundo rustica migration dates in the Canaries, BANNERMAN **55** p. 315; ringed in Yorkshire, found in S. Africa, WITHERBY **825**.

Progne subis field notes and migration dates in Florida, WILLIAMS **811**.

Petrochelidon albifrons hypopolia **subsp. n.** W. Canada, OBERHOSLER Canada Field-Nat. **33** p. 95.

FAM. MUSCICAPIDAE.

Alseonax murinus roehli **subsp. n.** G. E. Afr., GROTE Orn. Monatsb. **1919** p. 62.

Muscicapa sibirica cacabata **nom. n.** pro *M. s. fuliginosa* (Hodgs.) invalid; *M. cinereiceps* (Sharpe) must replace *M. ferruginea* (Hodgs.) invalid, PENARD **585**.

Cyornis lemprieri distinguishing characters, ZIMMER **836** p. 343.—*C. vanheysti* **sp. n.** N.E. Sumatra, ROBINSON & KLOSS J. Straits Asiat. Soc. No. **80** p. 104.

Niltava grandis decorata **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 444.

Erythromyias timorensis **nom. n.** pro *E. pyrrhonotus* S. Müll. preoccupied, HELLMAYR **321** p. 132.

[*Muscicapula*] *Dendrobiastes hyperythra annamensis* S. Annam, ROBINSON & KLOSS Ibis **1919** p. 445.

Chasiempis review of forms with keys, descriptions and distribution in the Hawaiian Is., MACCAUGHEY **453**.

Haplornis **nom. n.** to replace *Musicylva* Gray nec *Muscylva* Lesson for type *Rhipidura lessoni* Gray, WETMORE Bull. Mus. Comp. Zoöl. **63** 1919 p. 201 (*cf.* Stone Auk **38** p. 160).

Hyliota affinis **sp. n.** Cameroon, REICHENOW J. Ornith. **67** p. 226.

Bias musicus changamwensis **subsp. n.** coast region Kenya Colony, SOMEREN Bull. B. O. C. **40** p. 24.

Smithornis capensis meinertzhageni **subsp. n.** Kenya Colony, SOMEREN Bull. B. O. C. **40** p. 24.

Erythrocercus maccalli occuring on the lower Congo, SCHOUTEDEN **669** p. 191.

Terpsiphone affinis procera distinctive characters, OBERHOLSER **560** p. 487.

Myiagra townsendi **sp. n.** Kambara, Fiji Is., WITMORE Bull. Mus. Comp. Zoöl. **63** p. 205.

Cryptololapha malcolomsmithi **sp. n.** p. 448 pl. xvi fig. 1, *C. castaneiceps annamensis* **subsp. n.** p. 447, *C. tephrocephala ocularis* **subsp. n.** p. 448, all S. Annam, ROBINSON & KLOSS Ibis **1919**.

Stoparola thalassina (Swains) must replace *S. melanops* (Vigors) preoccupied, OBERHOLSER **549** p. 240.

FAM. CAMPOPHAGIDAE.

Graucalus macei siamensis taxonomic note, ROBINSON & KLOSS **631** p. 450.

Volvocivora koratensis and other Siamese species taxonomic note, KLOSS **397** p. 447.

Pericrocotus andamanensis minythomelas distinctive characters, OBERHOLSER **560** p. 493.—*P. cantonensis* occurrence in Siam, ROBINSON & KLOSS **629** p. 106.

Lalage schisticeps **sp. n.** Philippine Is., NEUMANN J. Ornith. **67** p. 333.

FAM. PYCNONOTIDAE.

Ægithina philipi Oust. = *Æ. tiphia*, ROBINSON & KLOSS **631** p. 565.

Chloropsis cyanopogon septentrionalis **subsp. n.** Siam, ROBINSON & KLOSS J. N. H. Soc. Siam **3** p. 107.

[*Iole*] *Hemixus tickelli griseiventer* **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 568.

Criniger ochraceus synonymy and status, ROBINSON & KLOSS **629** p. 108.

[*Bleda*] *Phyllastrephus tephrolaemus usambarae* p. 62, *P. fischeri cognitus* p. 63 **subspp. n.** G. E. Afr., GROTE Orn. Monatsber. **1919**.

Molpastes h. bengalensis semi-albino described, BAKER, **47**.

Pycnonotus aurigaster germaini taxonomic note, ROBINSON & KLOSS **631** p. 571.

Xanthiscus flavescens sordidus **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 569.

Otocompsa flaviventris johnsoni taxonomic and other remarks, BAKER **38** p. 195.

Spizixus must form type of a new family Spizixidae p. 14; *Cophixus* **gen. n.** for type *S. semitorques* p. 15 OBERHOLSER J. Acad. Sci. Washington **9**.

FAM. TIMELIIDAE.

Hylacola pyrrhopygia field notes and nesting habits, GILBERT **265**.

Trochalopteron yersini **sp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 575 pl. xiii fig. 2.

Pomatorhinus olivaceus annamensis S. Annam p. 577, *P. tickelli brevirostris* Cochin China p. 578 **subspp. n.**, ROBINSON & KLOSS Ibis **1919**.

Garrulax leucolophus, G. moniliger, distribution of races, BAKER **38** pp. 182–3.—*G. pectoralis meridionalis* **subsp. n.** Siam, ROBINSON & KLOSS Bull. B. O. C. **40** p. 11.—*G. vassali* redescribed p. 573, *G. milleti* **sp. n.** S. Annam p. 574 pl. xii, ROBINSON & KLOSS Ibis **1919.**

Stactocichla merulina annamensis **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 577 pl. xiii fig. 1.

Rhinocichla mitrata major **subsp. n.** Malay Peninsula, ROBINSON & KLOSS Bull. B. O. C. **40** p. 16.

Crateropus tenebrosus claudei **subsp. n.** Welle river, Belgian Congo, BANNERMAN Bull. B. O. C. **39** p. 99.

Ophrydornis albogularis moultoni **subsp. n.** Borneo, ROBINSON & KLOSS Bull. B. O. C. **40** p. 171.

Scotocichla fuscicapilla babaulti **subsp. n.**, N. Ceylon, WELLS Bull. B. O. C. **39** p. 69.

Macrosphenus albigula **sp. n.** G. E. Afr., GROTE Orn. Monatsb. **1919** p. 62.

Setaria rufifrons nomenclatural note, BAKER **38** p. 186.

Turdinulus epilepidotus clarus **subsp. n** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 582.

Rimator danjoui **sp. n.** S. Annam ROBINSON & KLOSS Ibis **1919** p. 578 pl. xiv fig. 2.

Alcippe nepalensis annamensis **subsp. n.** S. Annam, ROBINSON & KLOSS ibis **1919** p. 582.

Pseudominla atriceps **sp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 583 pl. xiv fig. 1.

Stachyris nigriceps dilutus **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 584.

Tesia cyaniventris olivacea from Annam with taxonomic note, ROBINSON & KLOSS **631** p. 590.

Siva sordida orientalis **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 587.

Herpornis xantholeuca sordida **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 588.

Cutia nipalensis legalleni **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 588 pl. xv.

Pterythius aeralatus annamensis **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 589.

Mesia argentauris cunhaci **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 591 pl. xvi fig. 2.

FAM. TROGLODYTIDAE.

Heleodytes pallescens (Lafr.) must replace *H. balleatus* (Baird) with taxonomic note, BANGS & PENARD **53** p. 29.

Thryomanes b. bewicki status in Ontario, SAUNDERS **656.**

Cistothorus aequatorialis fulvescens **subsp. n.** Colombia, TODD Proc. Biol. Soc. **32** p. 114.

Troglodytes musculus bonariae **subsp. n.** Argentina, HELLMAYR Anz. Orn. Ges. Bay. No. **1** p. 2; also Verhandl. **14** p. 128.—*T. rosaceus* type locality designated Chili, HELLMAYR **321** p. 128.

Salpinctes guadeloupensis must stand as a subspecies of *S. obsoletus,* OBERHOLSER **529** p. 407.

[*Anorthura*] *Troglodytes troglodytes* field notes in Ireland, BURKITT **109.** —*Nannus troglodytes* list of recognized races p. 226, *N. t. kiskensis* Kiska I., Aleutian Is., p. 228, *N. t. tanagensis* Tanage I., Aleutian Is., p. 229, OBERHOLSER Proc. U.S. Nat. Mus. **55.**

Leucolepis lawrencii assimilis, L. phaeocephalus propinquus **subspp. n.** Columbia, TODD Proc. Biol. Soc. **32** p. 114.

Pnoepyga pusilla annamensis **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 591.

FAM. CINCLIDAE.

Cinclus cinclus cinclus occurrence in Belgium, HAVRE **317.**—*C. c. medius* and *C. c. meridionalis* distinct subspecies both occurring in Bavaria, SACHTLEBEN **650.**—*C. c. orientalis* **subsp. n.** Macedonia, STRESEMANN Anz. Orn. Ges. Bay. No. **1** p. 4.

FAM. MIMIDAE.

Mimus longicaudatus punensis Hellm. is a synonym of *M. l. albogriseus* Less., HELLMAYR **321** p. 133.—*M. antellius* **nom. n.** pro *M. lividus* (Licht.), OBERHOLSER **549** p. 128.

Nesomimus nesting and other habits of the various species in the Galapagos Is., GIFFORD **264** p. 207.

FAM. TURDIDAE.

Myadestes townsendi nesting habits in California, DAWSON **193.**

[*Merula*] *Turdus merula* on a nest containing four eggs as well as three of *T. musicus clarkei*, CHUBB **147**; pied var. in Essex, WILLMOTT **816**; modified nesting habits in Tasmania, DOVE **206.**—*Planesticus serranus cumanensis* **subsp. n.** N.W. Venezuela, HELLMAYR Verhandl. Orn. Ges. Bay. **14** p. 127.—*Turdus nudigenis* Lafresn. has priority over *T. gymnophthalmus*, *T. rufopalliatus* note on name, BANGS & PENARD **53** p. 31.—*Planesticus niveiceps* **nom. n.** pro *P. albiceps* (Swinh.) preoccupied. HELLMAYR **321** p. 133.

Geocichla c. citrina new to Sumatra, ROBINSON & KLOSS **633** p. 119.—*Turdus citrinus courtoisi* **subsp. n.** Anhwei, China, HARTERT Bull. B. O. C. **40** p. 52.

[*Cichloselys*] *Turdus sibiricus* first record for Hungary, CHERNEL **134.**

Oreocincla aureus angustirostris occurrence in Annam with descriptive note, ROBINSON & KLOSS **631** p. 592.

Turdus pilaris in Northumberland in summer, BOLAM **85.**—*Planesticus migratorius* wintering in Nova Scotia, LEWIS **426**; anatomy of a three-legged individual, SHUFELDT **683.**

Hylocichla minima minima (Lafresn.) is correct name for *H. aliciae bicknelli* (Ridgw.), BANGS & PENARD **53** p. 30.—*Turdus iliacus* in Northumberland in summer, BOLAM **85.**—*Turdus musicus* [Song-thrush] food habits and selection of snails, HAVILAND & PITT **316**; revision of the subspecies of Song-Thrush, ZEDLITZ **834.**—*T. musicus* a suggestion in regard to the name, LÖNNBERG **433.**—*T. philomelus philomelus* status in the Canaries, BANNERMAN **55** p. 291.—*T. p. hebridensis* an early note on, JOURDAIN **384.**

[*Petrophila*] *Monticola cyanea* occurrence in Switzerland, FISCHER-SIGWART **243.**

[*Tharrhaleus*] *Prunella modularis mabbottii* **subsp. n.** Pyrenees, France, HARPER Proc. Biol. Soc. Wash. **32** p. 243.—*P. m. obscura* from Portugal sufficiently distinct from *P. m. occidentalis*, WITHERBY **826.**

[*Ephthianura*] *Ashbyia lovensis* nest and eggs, M'GILP **455.**

Henicurus guttatus juvenile plumage, ROBINSON & KLOSS **631** p. 594.

[*Aëdon*] *Lucinia megarhyncha* occurrence in Devon, WATKIN **781.**

Erithacus rubecula melophilus in Portugal, WITHERBY **826.**—*E. r. atlas* **subsp. n.** Morocco, LYNES Bull. B. O. C. **40** p. 32.

Copsychus saularis zacnecus distinctive characters, OBERHOLSER **560** p. 489.

Kittacincla malabarica macrurus status of Malayan races and nomenclatural note, ROBINSON **628.**

Cossypha niveicapilla (Lafresn.) antedates *C. verticalis* (Hartl., BANGS & PENARD **53** p. 31.

[*Pratincola*] *Saxicola torquata hibernans* in Portugal, WITHERBY **826.**

Oreicola ferrea in Annam, ROBINSON & KLOSS **631** p. 596.

Cercomela fusca, nesting habits in India, WHITE **797.**—*C. spectatrix* **sp. n.** Bt. Somaliland, CLARKE Bull. B. O. C. **40** p. 49.

[*Saxicola*] *Œnanthe hispanica xanthomelaena* the Black-throated and Black-eared birds dimorphic forms of the same species, SLADEN **693** p. 235.

Cantharus melpomene sierrae **subsp. n.** Santa Marta, Colombia, HELLMAYR Verh. Orn. Ges. Bay. **14** p. 126.

FAM. SYLVIIDAE.

Locustella luscinioides history and distribution in Germany, HESSE **336.**—*L. ochotensis* new to Palawan, ZIMMER **836** p. 347.—*L. naevia* nest and eggs photographed, RUXTON **646.**

[*Acrocephalus*]*Calamodyta aquatica* breeding note in Holland, PELLINKHOF **591**.—*Conopoderas atypha* **sp. n.** Fakarava p. 206, *C. a. rava* **subsp. n.** Whitsunday p. 208, *C. a. crypta* **subsp. n.** Makemo p. 209, *C. a. agassizi* **subsp. n.** Apataki p. 210, *C. a. nesiarchia* **subsp. n.** Rangiroa p. 210, *C. a. erema* **subsp. n.** Makatea p. 211, all in the Paumotu group, *C. percernis* **sp. n.** Marquesas Is. p. 213, WETMORE Bull. Mus. Comp. Zoöl. **63**.

Cisticola exilis nesting habits, THOMSON **755**.

Megalurus palustris forbesi **subsp. n.** Luzon Philippine Is., BANGS Proc. N. Engl. Zoöl. Cl. **7** p. 6.—*M. celebensis* **sp. n.** Celebes, RILEY Proc. Biol. Soc. Wash. **32** p. 94.

Eremiornis carteri nest described and figured, WHITLOCK **802** p. 250 pl. xl.

Cryptillas victorini in the Drakenstein Mts., Cape Prov., ROBERTS **624**.

Bradypterus yokanae Uganda p. 21, *B. altumi* Mt. Kenia **spp. n.** p. 22, SOMEREN Bull. B. O. C. **40**.—*B. transvaalensis* **sp. n.** Transvaal, ROBERTS Ann. Transv. Mus. **6** p. 116.—*B. babaeculus* note on this rare species, ROBERTS **624**.

Sylvia communis status in the Canaries, BANNERMAN **55** p. 122.

[*Melizophilus*] *Sylvia sarda balearica* distinctive characters, WITHERBY **827**.

[*Acanthiza*] *Geobasileus hedleyi rosinæ*, field-notes, PARSONS **578**; figured in colour with notes on habits and distribution, WHITE **799**.

Dryodromas fulvicapilla silberbaueri **subsp. n.** Cape Prov., ROBERTS Ann. Transv. Mus. **6** p. 117.

Cettia cetti in the Friuli valley, N.E. Italy, and its song, STADLER **704**.—*C. c. mülleri* **subsp. n.** Macedonia, STRESEMANN Anz. Orn. Ges. Bay. No. **1** p. 5.

Suya crinigera cooki recorded from Annam, ROBINSON & KLOSS **631** p. 601.

Prinia inornata herberti taxonomic remarks and eggs described, BAKER **38** p. 203.

Malurus leucopterus status and plumage discussed, CAMPBELL **119** p. 260; its relationship to its allies *M. cyanotus* and *M. edouardi*, ALEXANDER **8**.—*M. leucopterus*, *M. cyanotus* and *M. edouardi* figured in colour, CAMPBELL **120**.

Stipiturus malachurus media **subsp. n.** W. Australia, MATHEWS Bull. B. O. C. **40** p. 45.

FAM. VIREONIDAE.

Vireo h. huttoni field notes in California, VAN FLEET **773**.

FAM. AMPELIDAE.

Ampelis garrulus movements in Germany 1913–14, TRATZ **767**.

FAM. PRIONOPIDAE.

Hemipus hirundinaceus (Temm.) must replace *H. obscurus* (Horsf.) preoccupied OBERHOLSER **549** p. 240.

Pinarolestes nesiotis **sp. n.** Kambara, Fiji Is., WETMORE Bull. Mus. Comp. Zoöl **63** p. 216.

FAM. LANIIDAE.

Lanius ludovicianus grinnelli **subsp. n.** N. Central Lower California, OBERHOLSER Wilson Bull. **31** p. 87.

[*Phoneus*] *Lanius nubicus* breeding in Macedonia, STRESEMANN **722**.

[*Enneoctonus*] *Lanius collurio* habits of young birds observed in captivity, RIVIERE **622**.

Chlorophoneus andaryae **sp. n.** Uganda, JACKSON Bull. B. O. C. **39** p. 94.—*C. elgeyuensis* **sp. n.** Kenya Colony, SOMEREN Bull. B. O. C. **40** p. 23.

Laniarius ruficeps cooki **subsp. n.** Taru desert, Kenya Colony, SOMEREN Bull. B. O. C. **40** p. 23.

[*Pomatorhynchus*] *Tschagra senegala warsangliensis* **subsp. n.** Somaliland, CLARKE Bull. B. O. C. **40** p. 50.

Oreoica cristata nesting habits and caterpillars in nests, CHISHOLM **137**.

Pachycephala rufogularis note on Gould's type specimen, ASHBY **21**.—*P. pluviosa* **sp. n.** Celebes, RILEY Proc. Biol. Soc. **32** p. 95.

FAM. PARIDAE.

[*Pœcile*] *Parus palustris* in Spain, WITHERBY **827**.—*P. salicarius rhenanus* habits and occurrence in N. France, STADLER **706**, SUNKEL **734**.—*P. atricapillus rhenanus* occurrence near Strassbourg, BACMEISTER.—*P. a. salicarius* in Holstein and the Erzgebirge, SCHELCHER **659**.—*P. montanus salicarius* in Saxony, HEYDER **340**.

[*Sittiparus*] *Parus varius sunsumpi* Tanegashima, *P. v. yakushimensis* Yakushima, S. Islands of Japan, KURODA Dobuts. Zasshi **31** p. 232.

Ægithaliscus annamensis **sp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 606.

Ægithalos caudatus discussion of the interrelations of the group p. 3, *Æ. c. romanus* **subsp. n.** Italy p. 10, STRESEMANN Beitr. Zoogeogr. pal. Reg. **1**.—*Æ. c. expugnatus* nesting habits, BACMEISTER **27**.—*Æ. c. pyrenaicus* **subsp. n.** C. Pyrenees, HARTERT Bull. B. O. C. **39** p. 40.

FAM. REGULIDAE.

Regulus cristatus anatomy of alimentary canal, GRESCHIK **279**.—*R. calendula* geographical variation in the song, SAUNDERS **654**.

Sylviparus modestus in Annam with list of subspecies, ROBINSON & KLOSS **631** p. 607.

FAM. SITTIDAE.

Sitta europaea homeyeri its status discussed, STRESEMANN **729**.—*S. e. atlas* **subsp. n.** Morocco, LYNES Bull. B. O. C. **40** p. 32.—*S. e. cisalpina* **subsp. n.** Italy, SACHTLEBEN Anz. Orn. Ges. Bay. No. **2** p. 7.

[*Dendrophila*] *Poliositta azurea nigriventer* **subsp. n.** W. Java, ROBINSON & KLOSS Bull. B. O. C. **40** p. 17.

FAM. CERTHIIDAE.

Certhia on the forms breeding in Hesse and Hanover, SCHNURRE **668**.—*C. brachydactyla* and *C. familiaris* origin, evolution, relationship, present and part distribution, STRESSMANN **727**.—*C. familiaris montana* nesting habits in Colorado, BRADBURY **94**.—*C. brachydactyla ultramontana* doubtfully separable from *C. b. lusitanica*, WITHERBY **826**.—*C. discolor meridionalis* **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 609.

Trichodroma muraria in Somersetshire, WIGLESWORTH **804 805**.

Climacteris erythrops parsonsi **subsp. n.** South Australia, MELLOR S. Austr. Orn. Adelaide **4** p. 5.

FAM. ZOSTEROPIDAE.

Zosterops palpebrosa williamsoni **subsp. n.** Siam, ROBINSON & KLOSS J. Nat. Hist. Soc. Siam **3** p. 445.—*Z. atrifrons surda* **subsp. n.** Celebes, RILEY Proc. Biol. Soc. Wash. **32** p. 95.

FAM. DICAEIDAE.

Acmonorhynchus affinis **sp. n.** Palawan, Philippine Is., ZIMMER Philippine J. Sci. **13** p. 348.

FAM. NECTARINIIDAE.

[*Chalcostetha*] *Cinnyris ornata microleuca* **subsp. n.** Pulo Taya, off S.E. Sumatra, OBERHOLSER Proc. U.S. Mus. **55** p. 273.

Æthopyga siparaja tonkinensis in Annam taxonomic note p. 621; *Æ. sanguinipectus johnsi* and *Æ. gouldiae annamensis* **subspp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 621 pl. xviii.

Arachnothera aurata nesting habits in Burma, MACKENZIE **458**.

FAM. MELIPHAGIDAE.

List of types in the Tring Museum, HARTERT **314** p. 172.

Melithreptus gularis field notes, nesting habits and distribution, GILBERT **266**.

Myzomela rubatra nomenclature note p. 219, *M. r. dichromata* **subsp. n.** Ponapé E. Caroline Is. p. 220, WETMORE Bull. Mus. Comp. Zoöl. **63**.—*M. splendida* Tristr. = *M. c. cardinalis*, HARTERT **314** p. 172.

[*Meliphaga*] *Zanthomiza phrygia tregellasi*, nr. Adelaide, MELLOR **484**.

FAM. MNIOTILTIDAE.

List of types in the Tring Museum, HARTERT **314** p. 171.

Vermivora pinus example with affinities to *V. chrysoptera*, near Boston, ALLEN **10**.

Dendroica castaneiceps must stand as a subspecies of *D. erithachorides*, OBERHOLSER **529** p. 85.—*D. tigrina* nest and eggs photographed and described, PHILIPP & BOWDISH **588** p. 38.—*D. virens waynei* first description of nest and eggs taken in N. Carolina, WAYNE, **782**.—*D. vitellina* races reviewed p. 493, *D. v. nelsoni* **subsp. n.** Swan Island, Carribean Sea, p. 494, BANGS Bull. Mus. Comp. Zoöl **62**.

Geothlypis trichas nest studies, SHARER **687**.

Chamaethlypis its affinities, MILLER **497**.

Myioborus melanocephalus bolivianus **subsp. n.** Bolivia, CHAPMAN Proc. Biol. Soc. **32** p. 265.

Basileuterus luteoviridis superciliaris **subsp. n.** Peru, CHAPMAN Proc. Biol Soc. **32** p. 265.

Certhidea olivacea and *C. cinerascens* nesting and other habits on the Galapagos Is., GIFFORD **264** p. 220.

FAM. DREPANIDAE.

List of types in the Tring Museum, HARTERT **314** p. 169.

Dysmorodrepanis **gen. n.** (p. 250) for type *D. munroi* **sp. n.** p. 251 Lanai, Hawaiian Is., PERKINS Ann. Mag. N. H. (9) **3**.

FAM. MOTACILLIDAE.

List of types in the Tring Museum, HARTERT **314** p. 167.

Motacilla alba lugubris and *M. a. alba* their distinctions pointed out, WITHERBY **818** pl. 2.—*M. a. personata* taken in Sussex, first record for Sussex, NICOLL **520**.—*Motacilla flava rayi* distribution in N. France, MCWILLIAM **459**.

Anthus cervinus status and habits in Belgium, COOPMAN **170**; in East Prussia, a correction, TISCHLER **761**.—*A. spinoletta littoralis* ringed in Finland recovered in N.E. France, ROBINSON **634**.—*A. s. japonicus* in the Pribilof Is. new to N. America, HANNA **303**.—*A. rubescens* must stand as a subspecies of *A. spinoletta*, OBERHOLSER **529** p. 406.—*A. blayneyi* **sp. n.** Kenia Colony, SOMEREN Bull. B. O. C. **40** p. 56.

FAM. ALAUDIDAE.

List of types in the Tring Museum, HARTERT **314** p. 163.

Alaemon hamertoni tertia **subsp. n.** Somaliland, CLARKE Bull. B. O. C. **40** p. 49.

Melanocorypha bimaculata gaza **subsp. n.** Palestine, MEINERTZHAGEN Bull. B. O. C. **39** p. 84.

Calandrella pispoletta canariensis=*C. minor rufescens* (Vieill.), HARTERT **314** p. 163.

Mirafra apiata adendorffi **subsp. n.** ROBERTS Ann. Transv. Mus. **6** p. 117.—*M. africana harterti* Neum.=*M. a. tropicalis*, HARTERT **314** p. 164.—*M. longonotensis* **sp. n.** Kenya Colony, SOMEREN Bull. B. O. C. **40** p. 57.—*M. assamica marionae* in Annam ROBINSON & KLOSS **631** p. 619.

Galerida cristata further notes on Egyptian and Sudanese subspecies, HARTERT **313**.—*G. c. cristata* in northern France, WALLIS **779**.

FAM. FRINGILLIDAE.

List of types in the Tring Museum, HARTERT **314** p. 152.

Geospiza habits of the various species in the Galapagos Is., GIFFORD **264** p. 225.

Camarhynchus nesting and other habits of the species in the Galapagos Is., GIFFORD **264** p. 246.

[*Ligurinus*] *Chloris chloris* × *Carduelis carduelis* a hybrid, LÖNNBERG **437**.—*Chloris macedonica* **sp. n.**, REICHENOW N. Macedonia Orn. Monatsb. **1919** p. 134.

Eophona migratoria pulla **nom. n.** pro *E. m. melanura* (Gmel.) invalid, PENARD **585**.

Pheucticus uropygialis terminalis **subsp. n.** Peru, CHAPMAN Proc. Biol. Soc. Wash. **32** p. 266.

[*Zamelodia*] *Hedymeles* should be used instead of *Zamelodia*, OBERHOLSER

530.—*H. melanocephalus papago* **subsp. n.** Mexico and W. Central U.S.A., OBERHOLSER Auk. **36** p. 413.

Spermophila pileata eclipse plumage, BLAAUW **79.**

Catamenia analoides griseiventris **subsp. n.** Peru, CHAPMAN Proc. Biol. Soc. **32** p. 267.

Cardinalis phoeniceus note on the type specimen, HARTERT **314** p. 155.

Saltator striatipictus furax Costa Rica p. 32, *S. s. speratus* Pearl Is., Panama, p. 33 **subspp. n.** and other forms reviewed, BANGS & PENARD **53.**

Carduelis carduelis balcanica **subsp. n.** Macedonia, SACHTLEBEN Anz. Orn. Ges. Bay. No. **1** p. 3.—*C. c. weigoldi* note on this Portuguese race, WITHERBY **826.**

[*Hypacanthis*] *Chrysomitris spinoides* breeding in captivity, BAILY **37.**

[*Linaria*] *Acanthis flavirostris stoliczkae* Hart. = *Carduelis f. montanellus* Henders. and Hume, HARTERT **314** p. 157.—*A. linaria rufescens* field notes in the Austrian Alps, WALCHER **778.**

Passer domesticus nesting habits, HOFFMANN **348**; its scarcity in the south of France, MENEGAUX **492**; has reached Death Valley, California, GRINNELL **283.**—*P. domesticus* × *P. montanus* a wild hybrid, NICHOLS **517.**—*P. maobiticus mesopotamicus* note on range, nest and eggs, CHEESMAN & BUXTON **133.**

[*Poliospiza*] *Crithagra leucoptera* = *C. albogularis* juv., ROBERTS **624.**

Warsanglia **gen. n.** for type, *W. johannis* **sp. n.** Somaliland, CLARKE Bull. B. O. C. **40** p. 48.

Serinus psuedobarbatus **sp. n.** E. Uganda, SOMEREN Bull. B. O. C. **40** p. 56.—*S. buchanani* **sp. n.** Kenia Colony, HARTERT Bull. B. O. C. **39** p. 50.

Loxia curvirostra probably nesting in Suffolk in 1918, BUNYARD **106.**—*L. c. minor* nesting habits in British Columbia, MUNRO **514.**—*L. c. meridionalis* **subsp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 618.—*L. bifasciata* date and localtiy of an early record in Ireland corrected, STENDALL **711.**—*L. leucoptera bifasciata* early history in Sweden, GERTZ **262.**

Pyrrhula pyrrhula review of the European subspecies, STRESEMANN **725**; breeding near Danzig, IBATH **369.**—*P. pyrrhula minor* Brehm and *P. p. germanica* Brehm must be distinguished and recognised, STRESEMANN **723** p. 11.—*P. owstoni* characteristics and affinities, HARTERT **314** p. 160.

Uragus sibiricus taken in Sussex, first record for Europe, NICOLL **520.**

Emberiza schoeniclus volgae **subsp. n.** South Russia, STRESEMANN Anz. Orn. Ges. Bay. No. 2 p. 9.—*E. s. schoeniclus pallidior* on an intermediate example from Wurtemberg, TISCHLER **762.**—*E. melanocephala* type locality not correctly given by Hartert, SCHIEBEL **662**; double moult, STRESEMANN **728** p. 78.—*E. c. citrinella* habits in Belgium, MAIRBOT **464.**—*E. cineracea* Brehm must be used instead of *E. cinerea* Strickl. 1837 nec Gmel. 1789, HELLMAYR **321** p. 133.

Hypocentor this name should be used for the *aureola* group of Buntings, OBERHOLSER **535.**

[*Miliaria*] *Emberiza calandra* status in the Canary Is., BANNERMAN **55** p. 107.

Plectrophenax nivalis field notes and nesting in N. Greenland, EKBLAW **224.**

Passerculus rostratus revision of subspecies, OBERHOLSER **546.**

Centronyx a distinct genus, characters given, OBERHOLSER **552** p. 141.

[*Ammodramus*] *Passerherbulus henslowi susurrans* **subsp. n.** Virginia, BREWSTER Proc. N. Engl. Zoöl. Cl. **6** p. 78.—*Thryospiza mirabilis* **sp. n.** Cape Sable, Forida, HOWELL Auk **36** p. 86.

[*Haemophila*] *Peucaea aestivalis bachmani* in Canada, first record, SAUNDERS **656.**

Junco oreganus pontilis **subsp. n.** North Lower California, OBERHOLSER Condor **21** p. 119.—*J. o. thurberi* the eggs and their variations, RAY **601.**

Spizella canadensis Bodd. is correct name of American Tree-Sparrow, MATHEWS & IREDALE **474**. — *S. monticola* (Gm.) name changed to *S. arborea* (Wilson), OBERHOLSER **552** p. 139.

Zonotrichia querula historical notes and exact type-locality, HARRIS **306**.

Melospiza melodia merrilli nesting notes in Idaho, RUST **645**.—*M. cinerea semidiensis* **subsp. n.** Semidi Is., Alaska, BROOKS Proc. N. Engl. Zoöl. Cl. **7** p. 27.

Pipilo fuscus aripolius **subsp. n.** middle Lower California, OBERHOLSER Condor **21** p. 210.

Pseudochloris uropygialis connectens Peru p. 329, *P. olivascens sordida* Jujuy, Argentina, p. 330 **subspp. n.**, CHAPMAN Bull. Amer. Mus. **41**.—*P. salvini* **sp. n.** N. Peru p. 70, *P. aureiventris incae* **subsp. n.** Chilian Andes p. 71, CHUBB Bull. B. O. C. **39**.

Atlapes semirufus majusculus **subsp. n.** Colombia, TODD Proc. Biol. Soc. **32** p. 113.—*A. canigenis* **sp. n.** Peru, CHAPMAN Bull. Amer. Mus. **41** p. 330.

FAM. COEREBIDAE.

List of types in the Tring Museum, HARTERT **314** p. 151.

Diglossa mystacalis albilinea **subsp. n.** Peru, CHAPMAN Bull. Amer. Mus. **41** p. 331.

Oreomanes binghami **sp. n.** Peru, CHAPMAN Bull. Amer. Mus. **41** p. 331.

FAM. PROCNIATIDAE.

Procnias its status and relation to *Tangara*, MILLER **501**.

FAM. TANAGRIDAE.

List of types in the Tring Museum, HARTERT **314** p. 148.

Chlorophonia pyrrhophrys (Scl.) must replace *C. prêtrei* (Lafresn.), BANGS & PENARD **53** p. 34.

[*Euphonia*] *Tanagra violacea rodwayi* **subsp. n.** Roraima, Bt. Guiana, PENARD Proc. N. Engl. Zoöl Cl. **7** p. 30.—*T. l. lauta* et *T. l. proba* **nom. n.** pro *T. hirundinacea* (Bp.) et *T. gratho* Cab. p. 35, *T. heinei* must replace *T. atricapilla* preoccupied p. 36, BANGS & PENARD **53**.—*T. aureata* (Vieill.) must replace *T. cyanocephala* (Vieill.) and list of races, BANGS & PENARD **53** p. 34.

Calospiza larvata Central American races discussed, RENDAHL **608** p. 32.—*Tangara cyaneicollis gularis* **subsp. n.** S.E. Peru, CHAPMAN Bull. Amer. Mus. **41** p. 332.

Iridosornis rufivertex (Lafres.) taxonomic and historical note, must replace *I. dubusia* (Bp.), BANGS & PENARD **53** p. 36.

Buthraupis revision of the group, PENARD **582**.

Bangsia **gen. n.** for type *Buthraupis arcæi cœruleigularis* Cherrie, PENARD Auk **36** p. 539.

Cnemathraupis **gen. n.** for type *Buthraupis eximia* (Boissoneau), PENARD Auk **36** p. 538.

Piranga hepatica oreophasma **subsp. n.** S.W. U.S.A. to C. Mexico, OBERHOLSER Auk **36** p. 74.—*P. olivacea* (Gmel.) must replace *P. erythromelas* (Vieill.), OBERHOLSER **539**.

Phaenicothraupis rubica coccinea **subsp. n.** Colombia, TODD Proc. Biol. Soc. **32** p. 113.

Tachyphonus brevipes Lafresn. preoccupies *T. napensis* Lawr., BANGS & PENARD **53** p. 37.—*T. metallactus* **nom. n.** pro *T. rufiventris* (Spix) preoccupied, OBERHOLSER **549** p. 240.

Chlorospingus ophthalmicus note on taxonomy, BANGS & PENARD **53** p. 37.

Cnemoscopus **gen. n.** for type *Hemispingus rubrirostris* (Lafresn.), BANGS & PENARD **53** p. 38.

FAM. PLOCEIDAE.

List of types in the Tring Museum, HARTERT **314** p. 137.

Urobrachya phœnicea quanzae = *U. axillaris mechowi*, HARTERT **314** p. 145.

Pyromelana franciscana pusilla distinctive characters discussed, HARTERT **314** p. 144.—*Euplectes capensis macrorhynchus* **subsp. n.** Cape Prov., ROBERTS Ann. Transv. Mus. **6** p. 117.

Mandingoa **gen. n.** for type *Estrilda nitidula* Hartl., HARTERT Nov. Zool. **26** p. 147.

Lagonosticta senegala note on the subspecies, HARTERT **314** p. 147.—*Estrilda cinereovinacea rudolfi* **nom. n.** pro *Lagonosticta graueri* Rothsch., HARTERT Nov. Zool. **26** p. 141.—*L rubricata reichenowi* **subsp. n.** Mikindani Germ. E. Afr., GROTE J. Ornith. **67** p. 301.—*L. rhodopareia umbriventer* Mt. Kenya region p. 54, *L. jamesoni taruensis* coast lands of Kenya Colony p. 54, *L. senegalla kikuyuensis* Kenya Colony p. 55 **subspp. n.**, SOMEREN Bull. B. O. C. **40.**

Steganopleura Bp. type designated *bichenovii* Vig., MATHEWS **471** p. 433.

Tavistockia **gen. n.** for *Loxia guttata* Shaw, MATHEWS Bds. Austr. **7** p. 434.

[*Zonogastris*] *Pytelia melba angolensis* Angola, *P. m. grotei* coast of Tanganyika Terr. **subspp. n.**, REICHENOW J. Ornith. **67** p. 227.—*P. m. mosambica* **subsp. n.** Mosambique p. 55, *P. percivali* **sp. n.** Kenya Colony p. 56, SOMEREN Bull. B. O. C. **40.**

Poephila gouldiae note on races, CAMPBELL **118** p. 187.

Estrilda astrild litoris **subsp. n.** Ruvu river, German E. Afr., GROTE J. Ornith. **67** p. 301.—*E. charmosyna kiwanukae* **subsp. n.** Kenya Colony, SOMEREN Bull. B. O. C. **40** p. 55.

Granatina ianthogaster rothschildi Kavirondo, *G. i. montana* nr. Lake Naivasha, *G. i. ugandae* W. Uganda desert **subspp. n.**, SOMEREN Bull. B. O. C. **40** p. 53.—*Uraeginthus bengalus ugandae* note on races and nomenclature, HARTERT **314** p. 141.

Sporopipes frontalis loitanus **subsp. n.** S.E. Uganda, SOMEREN Bull. B. O. C. **40** p. 54.

Malimbus malimbus crassirostris **subsp. n.** Unyoro, Uganda, HARTERT Nov. Zool. **26** p. 140.

Spermospiza poliogenys first description of male, BANNERMAN **56** p. 9.

FAM. ICTERIDAE.

List of types in the Tring Museum, HARTERT **314** p. 136.

A note on the structure of the palate in the Icteridae, WETMORE **786.**

Ostinops decumanus insularis revived for birds from Trinidad and Tobago, BANGS & PENARD **53** p. 38.

Amblycercus holosericeus australis **subsp. n.** Bolivia, CHAPMAN Bull. Amer. Mus. **41** p. 333.

Dolichonyx oryzivorus, its range, migrations and economics, MCATEE **451.**

Agelaius phœniceus on the race occurring in Nicaragua, RENDAHL **608** p. 29.—*A. p. floridanus* note on the plumage, LINCOLN **428.**—*A. phœniceus predatorius*, *A. p. fortis* and *A. p arctolegus* winter and summer ranges in the middle U.S.A., HARRIS **307** p. 285.—*A. p. megapotamus* **subsp. n.** Texas, OBERHOLSER Wilson Bull. **31** p. 20.

Curaeus aterrimus (Kittl.) name changed to *C. curaeus* (Mol.), OBERHOLSER **549** p. 128.

Icterus nigrogularis (Hahn) must replace *Oriolus xanthornus* Gmel. unusable for the Troupial, HELLMAYR **321** p. 132.

Andriopsar Cassin; this genus should be used for *Icterus gularis* (Wagl.), WETMORE **786** p. 196.

Quiscalus quiscula note on races, *Q. q. ridgwayi* **nom. n.** *Q. q. quiscula* auct. nec Linn., OBERHOLSER **538** p. 552.

FAM. STURNIDAE.

Types in the Tring Museum listed, HARTERT **314** p. 134.

Sturnus vulgaris note on the Highland and Island subspecies, CLARKE **157**; the Asiatic subspecies described and listed, TICEHURST **757.**—*Sturnus v. vulgaris* former status in England, BUTTERFIELD **115**; food habits in Belgium, MERCIER **485**; ringed in Sweden, taken in England, RENDAHL **609**. ringed in Finland, captured in S. France, ROBINSON **635.**—*S. v. zetlandicus* distinctness confirmed, WITHERBY **820.**

[*Spodiopsar*] *Poliopsar leucocephalus annamensis* **subsp. n.** Annam, WELLS Bull. B. O. C. **39** p. 77.

Acridotheres tristis albino described, BAKER **47**; acclimatized in Queensland, CHISHOLM **138**.

FAM. EULABETIDAE.

[*Eulabes*] *Gracula javanica prasiocara* occurring on the Tembelan Is., S. China sea, OBERHOLSER **555** p. 141.

Aplornis brunnescens note on generic characters, TOWNSEND & WETMORE **764** p. 218.

Lamprocorax panayensis rhadinorhamphus distinctive characters, OBERHOLSER **560** p. 494.—*L. p. richmondi* **subsp. n.** Pulo Taya, off Sumatra, OBERHOLSER Proc. U.S. Nat. Mus. **55** p. 272.

Cosmopsarus regius donaldsoni **subsp. n.** Somaliland and frontier districts of E. Africa, SOMEREN Bull. B. O. C. **210** p. 52.

Amydrus montanus **sp. n.** Mt. Elgon, SOMEREN Bull. B. O. C. **40** p. 52.

Onychognathus fulgidus intermedius taxonomic note on the races, HARTERT **314** p. 135.

FAM. ORIOLIDAE.

Types in the Tring Museum, HARTERT **314** p. 133.

Oriolus oriolus early moults, STRESEMANN **728** p. 80.—*O. xanthornus* (Linn.) 1758 replaces *O. melanocephalus* Linn. 1766 for the Indian Oriole, HELLMAYR **321** p. 131.—*O. melanocephalus thaiacous* remarks on this supposed race; *O. indicus* and *O. tenuirostris* difficult distinguishing marks, ROBINSON & KLOSS **631** p. 613 614.

[*Mimeta*] *Oriolus finschi* a subspecies of *O. striatus* on so-called mimicry in this group, HARTERT **314** p. 133.

FAM. DICRURIDAE.

List of types in the Tring Museum, HARTERT **314** p. 130.

Dicrurus annectens siamensis a distinct race, BAKER **46** p. 41.

Chibia hottentotta two races only recognized, BAKER **46** p. 44.

[*Dicruropsis*] *Dicrurus* (*bracteatus?*) *buruensis* **subsp. n.** Buru, Molucca Is., HARTERT Nov. Zool. **26** p. 133.—*Dicruropsis montana* **sp. n.** Celebes, RILEY Proc. Biol. Soc. Washington **32** p. 94.—*Dicrurus cineraceus rebaptizatus* **nom. n.** pro *Buchanga palawanensis* Palawan, HARTERT Nov. Zool. **26** p. 130.

Buchanga leucophaea batakensis **subsp. n.** Sumatra, ROBINSON & KLOSS J. Straits Asiat. Soc. No. **80** p. 125.

Bhringa remifer revision of races, BAKER **46** p. 42. —*B. r. peracensis* recorded from Annam with taxonomic note, ROBINSON & KLOSS **631** p. 611.

FAM. PARADISEIDAE.

List of types in the Tring Museum, HARTERT **314** p. 127.

Plumage display of Birds of Paradise, LE SOUEF **423**.

FAM. CORVIDAE.

List of types in the Tring Museum, HARTERT **314** p. 123.

[*Trypanocorax*] *Corvus frugilegus* food, MEYERS **493**; field notes in Hungary, CSÖRGEY **181**; attacking hawks, GILL **267**.

Frugilegus Selys-Longch. is the correct generic name of the Rook, OBERHOLSER **552** p. 141.

[*Heterocorax*] *Corvus capensis kordofanensis* **nom. n.** pro *C. c. minor* Heugl. preoccupied by *Corax sylvestris minor* Brehm 1860, LAUBMANN Verhandl. Orn. Ges. Bay. **14** p. 103.

Corvus critical notes on European forms p. 215, *C. cornix kaukasicus* **subsp. n.** Caucasus regions p. 220, *C. c. syriacus* **subsp. n.** Palestine p. 221, GENGLER J. Ornith. **67**.—*C. c. judaeus* **subsp. n.** Palestine, MEINERTZHAGEN Bull. B. O. C. **39** p. 85.—*C. corone* attacking hawks, GILL **267**.—*C. caurinus* must stand as a subspecies of *C. brachyrhynchos*, OBERHOLSER **529** p. 84.—*C. splendens* a brownish variation, WHISTLER **793**.—*C. brachyrhynchos* on the subspecies occuring in Colorado, BERGTOLD **75**.

Coœus monedula arriving on the south coast in April, WITHERBY **822**.—*C. fuscicollis* (Vieill.) is the oldest name for *C. neglectus* (Schleg.) et auct., STRESEMANN **723** p. 8.

[*Rhinocorax*] *Corvus brachycercus* **nom. n.** pro *Corvus affinis* Rüppell 1835 nec Shaw 1809, HELLMAYR Verhandl. Orn. Ges. Bay. **14** p. 131.

Pica pica distribution in Ireland, GUINNESS **291**; note on the nest, LABITTE **413**.

Cissa gabriellae O.-Grant a synonym of *C. hypoleuca* Gigl. and Salv.; *C. margaritae* **sp. n.** S. Annam, ROBINSON & KLOSS Ibis **1919** p. 604 pl. xvii.

Garrulus glandarius on the races found in Holland, SNOUCKAERT **694**.—*G. g. glandarius* in Oxon and Sussex, EDWARDS **218**

Sieberocitta recognised as a subgenus for the *Aphelcoma sieberii* group of the genus, OBERHOLSER **551**.

Cissilopha sanblasiana nelsoni **subsp. n.** Colima Mexico, *C. pulchra* Nelson is synonym of typical form, BANGS & PENARD Bull. Mus. Comp. Zoöl. **63** p. 40.

Pyrrhocorax alpinus habits, etc., in Germany, MERK-BUCHBERG, **488**.

XVIII. MAMMALIA

ARRANGED BY

MARTIN A. C. HINTON.

CONTENTS

PAGE

I. Titles 4

II. Subject Index :—

Comprehensive and General = 6003 :—
Treatises, Text-books 14
Bibliography 14
Institutions, Collections 14
Economics 14
Miscellaneous 14

Structure = 6007 :—
General and Comparative 14
Histology 14
Tegument 14
Nervous system and sense-organs 15
Myology 15
Osteology and Dentition... 15
Alimentary system 15
Circulatory and Respiratory Systems 15
Blood, Lymph, etc. 15
Placenta 15
Excretory organs. Special glands 15
Organs of reproduction 15

Physiology = 6011 :—
General and miscellaneous 15

Development = 6015 :—
Ovum, oogenesis 15
Spermatozoon, spermatogenesis... 15
Embryology 15
Post-embryonal 15

Ethology = 6019 :—
General 15
Habits ; (life-histories) 15

PAGE

Variation and Aetiology = 6023:—
Variation 16
Evolution 16
Hybrids 16
Heredity 16

Geography = 6027:—
Europe = *d* and *da* to *dk* 16
Germany 16
Belgium *dd* 16
British Islands *de* 16
France *df* 16
Spain *dg*... 16
Italy *dh*... 16
South-Eastern Europe *dl* 16
Asia = *e* 16
Asiatic Russia *ea* 16
China and Tibet *eb* 16
Japan and Korea *ec* 16
Cochin China, etc. *ed* 16
British India *ef*.. 16
Malaya, etc. *eg*... 16
Persia and Syria *eh* and *ei* 16
Africa and Madagascar = *f* 16
North America = *g* 16
Central and South America, Antilles = *h* 17
Australasia and Southern Ocean = *i* 17

III. Systematic = 6031:—
General.
Primates 17
A. Anthropoidea 17
Hominidae and Simiidae 17
Cercopithecidae 18
Cebidae and Hapalidae 18
B. Lemuroidea 18
Chiroptera 18
Rhinolophidae and Hipposideridae 18
Natalidae and Vespertilionidae 18
Molossidae 19
Insectivora 19
Galeopteridae 19
Tupaiidae and Macroscelididae 19
Soricidae and Talpidae 19
Nesophontidae 19
Erinaceidae 19
Chrysochloridae 19

PAGE

Carnivora 19
A. Carnassidentia 19
Felidae... 19
Viverridae 20
Hyænidae and Proteleidae 20
Canidae 20
Ursidae 20
Procyonidae 20
Mustelidae 20
B. Pinnipedia 21
C. Creodonta 21
Rodentia 21
Aplodontidae, Sciuridae and Anomaluridae 21
Castoridae and Gliridae 22
Dipodidae and Geomyidae 22
Muridae 22
Spalacidae 23
Hystricidae, Octodontidae, Caviidae, etc. 24
Leporidae and Ochotonidae 24
Ungulata 24
A. Artiodactyla 24
Bovidae 24
Giraffidae 25
Cervidae 25
Tragulidae and Hyemoschidae 25
Hippopotamidae, Suidae and Dicotylidae 25
B. Perissodactyla 25
Equidae 25
Tapiridae and Rhinocerotidae 26
Extinct Families 26
C and D. Hyracoidea and Proboscidea 26
Sirenia and Cetacea... 26
Edentata 27
Marsupialia 27
Monotremata 27

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Wroughton, R. C. *vide* Thomas, O.

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II.—SUBJECT INDEX.

6003 to 6027

N.B.—For full References go to Titles.

COMPREHENSIVE AND GENERAL. 6003

Treatises, Text-Books.

Cabrera, 34.

Bibliography.

Gyldenstolpe, 63; Koschevnikov & Uvarov, 107.

Institutions, Collections.

Hollister, 81; Le Souef, 115; Taylor, 197; Thomas, 212.

Economics.

Boulenger, 25; Dixon, 44; Grinnell & Dixon, 62; Justice, 96; Kunhardt, 109; Percival, 149; Petit, 152; Rossen, 177; Stauffacher, 186; Taylor, 196.

Whaling.

Harmer, 69, 70; Thompson, 217, 218.

Conservation of species.

Graves & Nelson, 58; Lawyer & Earnshaw, 114.

Technique.

Howell, 85; Thomas, 211; Taylor, 199.

Miscellaneous.

Merriam, 133; Szalay, 195.

STRUCTURE. 6007

General and Comparative.

Beddard, 16; Boas, 20; Paulli, 148; Toldt, 221; Woodward and others, 232.

Histology.

Retterer et Neuville, 163; Vialleton, 225.

Tegument.

Bolk, 23; Lander, 111; Pocock, 155; Retterer, 159; Retterer et Neuville, 164; Rhumbler, 170; Toldt, 219–223; Zietzschmann, 235.

Nervous System and Sense-Organs.

Anthony, 11; Boer, 21; Lander, 111; Marelli, 127; Nageotte, 140, 141; Nageotte, et Guyon, 142; Petit, 151; Smith, 232.

Myology.

Burlet & Correljé, 29; Nishi, 143; Sonntag, 184.

Osteology.

GENERAL.

Andrews, 7; Bolk, 22; Hogben, 80; Kollmann, 106; Retterer, 162; Schultz, 179; Scott & Lord, 180; Vallois, 224.

OSTEOLOGY AND DENTITION.

Andrews, 6; Anthony, 8; Fabiani, 47; Hay, 72; Osborn, 145, 146; Piaz, 153, 154; Revilliod, 169.

Dentition (*vide etiam* Osteology).

Baudouin, 15; Stefanescu, 187–192; Thomas, 211.

Alimentary System.

Johnston, 91; Kunze, 110; Lander, 111.

Circulatory and Respiratory Systems.

Barge, 14; Hafferl, 66; Lander, 111; Rhumbler, 170.

Excretory Organs; Special Glands.

Petersen, 150.

Organs of Reproduction.

Chapin, 37; Fraser, 53; Retterer, 160, 161; Retterer et Neuville, 163, 165.

PHYSIOLOGY. 6011

Baudouin, 15; Fielde, 50; Hatai, 71; Hays, 74; Johnson, 90; Lillie, 116; Lloyd-Jones & Hays, 117; Mann & Drips, 126; Maximoff, 130, 131, 132; Stewart, 193; Stockard & Papanicolaou, 194.

DEVELOPMENT. 6015

Ovum; Oogenesis; Spermatozoon; Spermatogenesis.

Federley, 49.

Embryology.

Burlet, 26, 27, 28; Chapin, 37; Fawcett, 48; Fraser, 53; Freund, 54; Hafferl, 66; Hill, 232; Hubrecht, 86; Ruhwandl, 178; Stadelmann, 185.

Post-Embryonal.

Koch & Koch, 105; Maximoff, 130, 131, 132; Nageotte, 140, 141; Nageotte & Guyon, 142; Retterer, 162; Retterer et Voronoff, 166, 167.

ETIOLOGY. 6019

Sexual and Parental.

Remmelen, 18; Blauuw, 19; Dubois, 45.

Habits.

General, and of particular creatures.

Boulenger, 25; Dixon, 44; Fitzsimons, 52; Grinnell & Dixon, 62; Hamilton, 68; Jacobson & Kloss, 89; Lang, 112; La Rue, 113; Le Souef, 115; Lönnberg, 123; Luederwaldt, 125; Mills, 136; Rossen, 177; Sokolowsky, 183; Taylor, 199.

Migrations of whales, Thompson, 217, 218.

Breeding.

Lillie, 116.

Mental Processes and Instincts.

Bordas et Krall, 24; Fielde, 50; Ziegler, 234.

Parasitism.

Mesnil et Rouband, 135.

Pathology.

Murray, 139.

VARIATION AND ÆTIOLOGY. 6023

Abnormalities.

Cragg & Drinkwater, 39; Krediet, 108; Toldt, 219.

Variation.

Castle, 35; Sonntag, 184.

Heredity.

Castle, 35; King, 97-99; Onslow, 144; Punnett & Bailey, 157; Rabaud, 158; Whiting, 227, 228; Whiting & King, 229.

Evolution, Phylogeny.

Gidley, 55; Giuffrida-Ruggeri, 57; Gregory, 59; Sokolowsky, 183; Stefanescu, 187-192; Woodward and others, 232; Winge, 230.

GEOGRAPHY. 6027

Geographical distribution, etc.

Hall & Grinnell, 67; Morice, 137; Tertiary, Joleaud, 92 95.

Europe. *d*

Tertiary, Revilliod, 169.

Germany. *dc*

Matschie, 128; Roman, 176.

Belgium. *dd*

Eocene Depéret, 40; Pliocene Depéret, 42.

Britain. *de*

Harmer, 69; Hinton, 79; Thompson, 217, 218.

France. *df*

Caziot, 36; Tertiary Depéret, 41; Teilhard, 200.

Iberian Peninsula. *dg*

Spain, Cabrera, 32; Pleistocene, Cabrera, 33; Hernandez-Pacheco, 75, 76.

Italy. *dh*

Pleistocene, Fabiani, 47; Miocene, Piaz, 153, 154.

South-Eastern Europe. *dl*

Miocene, Andrews, 6.

Asia *e*

Allen, 5.

Asiatic Russia. *ea*

Turkestan, Müller, 138.

Siam and Yunnan. *ed*

Siam, Gyldenstolpe, 64; Kloss, 100-104.

British India. *ef*

India, Andrews, 7; Thomas, 205, 213, 216.

India, Burma and Ceylon, Hinton, 77; Wroughton, 233.

Baluchistan, Thomas, 205.

Malaysia. *eg*

Reuter, 168.

Borneo, Gyldenstolpe, 63.

Java, Robinson & Kloss, 173.

Sumatra, Jacobson & Kloss, 89; Robinson & Kloss, 174, 175.

Persia, Syria and Arabia. *eh*

Thomas, 205, 214, 215.

Asia Minor, Matschie, 129.

Trancaucasia, Shidlovsky, 181, 182.

Palestine, Müller, 138; Thomas, 201.

Sinai, Thomas, 206.

Africa. *f*

Allen, 5; Cabrera, 30, 31; Hinton, 78; Lönnberg, 123.

Porto Santo, Giglio-Tos, 56.

N. Africa, Thomas, 205.

Sudan, Hamilton, 68.

Belgian Congo, Lönnberg, 119, 120.

East Africa, Hollister, 81.

Portuguese E. Africa, Thomas, 207.

South Africa, Chubb, 38; Fitzsimons, 52; Haagner, 65; Roberts, 172.

North America. *g*

Allen, 1, 4; Howell, 82; Graves & Nelson, 58.

Tertiary, Osborn, 145, 146.

Alaska, Figgins, 51; Jackson, 88.

New York, Pleistocene, Hay, 73.

Wisconsin, Jackson, 87.

North Dakota, **Bailey, 12.**

Washington, **Dice, 43; Taylor, 197, 198.**

California, **Allen, 2; Dixon, 44; Grinnell, 60, 61; Grinnell & Dixon, 62; Merriam, 134; Taylor, 197.**

Arizona, **Howell, 83.**

Florida, **Howell, 84;** Pleistocene, **Hay, 72.**

Central and South America: West Indies. *h*

Allen, 4.

South America, **Lönnberg, 121, 122; Osgood, 147; Ribeiro, 171.**

Cuba, **Anthony, 8.**

British Guiana, **Beebe, 17.**

Peru, **Eaton, 46.**

Argentina, **Thomas, 202, 204, 209, 210.**

Patagonia, **Thomas, 203, 208.**

Australasia. *i*

Australia, **Le Souef, 115; Waite, 226.**

Queensland, **Longman, 118.**

Tasmania, **Lord, 124; Scott & Lord, 180.**

South Atlantic.

Harmer, 70.

III.—SYSTEMATIC. 6031

N.B.—Numerals in Clarendon type, when not indicating a Volume, refer to Titles.

GENERAL.

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I.—PRIMATES.

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A.—Anthropoidea.

HOMINIDAE AND SIMIIDAE.

Homo, hand, BOAS, København Vid. Selsk. Biol. Medd. **2** 1.

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†*Pithecanthropus* femur, VALLOIS Paris C. R. Acad. Sci. **168** p. 739.

CERCOPITHECIDAE.

Cercopithecus ascanius katangae p. 122 Kinda, Katanga, *a. orientalis* p. 125 Zuwani River, Brit. E. Africa, *brazzæ uelensis* p. 130 Poko, Uele District, *leucampyx maesi* p. 133 Lake Leopold, *l. elgonis* p. 133 Mt. Elgon, *pyrogaster* p. 137 Atene, Kwango, *pygerythrus katangensis* p. 141 Kinda, Katanga, subspp. *et* **sp. n.**, LÖNNBERG Rev. Zool. Africaine **7**.

Choiropithecus rhodesiae, HAAGNER S. Afric. Journ. Nat. Hist. I. p. 172.

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Macaca nemestrina indochinensis p. 343, *irus atriceps* p. 347, E. Siam subspp. n., KLOSS J. Nat. Hist. Soc. Siam **3**.

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Presbytis argenteus p. 338, *cristata koratensis* p. 340, E. Siam **sp.** *et* subsp. **n.**, KLOSS J. Nat. Hist. Soc. Saim **3**.

HAPALIDAE AND CEBIDAE.

Callicebus personatus caecum, JOHNSTON J. Anat. London **54** p. 66.

Cebus xanthosternos Wied the tenable name for *Cebus variegatus* Geoffr., OSGOOD J. Mamm. Baltimore **1** p. 35.

B.—Lemuroidea.

Lemuridae os planum, KOLLMANN Bul. Muséum Paris **1919** p. 321.

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II.—CHIROPTERA.

Notes on Cuban species, ANTHONY Bul. Amer. Mus. N. H. **41** p. 636; Mount Whitney, California, habits and distribution, G. M. ALLEN J. Mamm. Baltimore **1** p. 5; Tertiary, REVILLIOD Geneve C. R. Soc. Phys. Hist. Nat. **36** p. 93.

RHINOLOPHIDAE & HIPPOSIDERIDAE.

†*Paradoxonycteris soricodon* **gen.** *et* **sp. n.** Tertiary Mormont, REVILLIOD Geneve C. R. Soc. Phys. Hist. Nat. **36** p. 95.

†*Paraphyllophora robusta* **gen.** *et* **sp. n.** Tertiary Quercy, REVILLIOD Geneve C. R. Soc. Phys. Hist. Nat. **36** p. 93.

†*Pseudorhinolophus egerkingensis* **sp. n.** Tertiary Egerkingen, REVILLIOD Geneve C. R. Soc. Phys. Hist. Nat. **36** p. 94.

Rhinolophus lemanensis **sp. n.** Tertiary St. Gérand-le-Puy, REVILLIOD Geneve C. R. Soc. Phys. Hist. Nat. **36** p. 95.

NATALIDAE.

Natalus primus **sp. n.**, Cuba, probably extinct, ANTHONY Bul. Amer. Mus. N. H. **41** p. 642.

VESPERTILIONIDAE.

Cistugo lesueuri **sp. n.** Lormarins, Paarl, District, S. Africa, ROBERTS Ann. Transvaal Mus. **6** p. 112.

Eptesicus hingstoni p. 745 Baghdad *walli* p. 746 Basra, Mesopotamia **spp. n.**, THOMAS J. Bombay Nat. H. S. **26**; *melckorum* **sp. n.** Kersfontein, Berg River, Cape Province, ROBERTS Ann. Transvaal Mus. **6** p. 113.

Miniopterus schreibersi primordial cranium, FAWCETT J. Anat. London **53** p. 315.

Myotis albicinctus **sp. n.**, Mount Whitney California, G. M. ALLEN J. Mamm. Baltimore **1** p. 2; †*salodorensis* **sp. n.** Tertiary Ravellen Fluh (Soleure), REVILLIOD Geneve C. R. Soc. Phys. Hist. Nat. **36** p. 94; *myotis* Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** p. 20.

Pipistrellus coxi **sp. n.**, Amara, Mesopotamia. THOMAS J. Bombay Nat. H. S. **26** p. 747; *P. subflavus* occurrence in Wisconsin, JACKSON J. Mamm. Baltimore **1** p. 38.

†*Samonycteris majori* **gen. n.** *et* **sp.** Tertiary Samos, REVILLIOD Geneve C. R. Soc. Phys. Hist. Nat. **36** p. 95.

†*Stehlinia gracilis* **gen.** *et* **sp. n.** Tertiary Quercy, REVILLIOD Geneve C. R. Soc. Phys. Hist. Nat. **36** p. 94.

MOLOSSIDAE.

Tadarida sindica Kashmir, Upper Sind Frontier, *thomasi* Bhuj, Cutch, p. 732, *gossei* Poona p. 733 **spp. n.**, WROUGHTON J Bombay Nat. H. S. **26.**

III.—INSECTIVORA.

From Siam, KLOSS J. Nat. Hist. Soc. Siam **3** p. 53; from Borneo, GYLDENSTOLPE Stockholm, Vet.-Ak. Handl. **60** No. 6 p. 19.

GALEOPTERIDAE.

Galeopithecus volans Embryologie, Placentation, HUBRECHT Amsterdam Verhandl. K. Acad. Wet. 2e Sect. **16** No. 6 p. 1.

Galeopterus lechei **sp. n.** Central Borneo, GYLDENSTOLPE Stockholm Vet.-Ak. Handl. **60** No. 6 p. 17.

MACROSCELIDIDAE AND TUPAIIDAE.

Petrodromus (*Mesoctenus*) *rovumae* specimens from Lumbo, *mossambicus* withdrawn (synonym of *rovumae*), THOMAS Ann. Mag. N. H. (9) **4** p. 30.

Tupaia minor humeralis subsp. n. Bencoolen, West Sumatra, ROBINSON & KLOSS J. Fed. Malay Mus. **7** p. 265.—*glis cambodiana* p. 357, *g. olivacea* p. 358 Siam subspp. n., KLOSS J. Nat. Hist. Soc. Siam **3.**

SORICIDAE AND TALPIDAE.

Crocidura russula judaica subsp. n. Jerusalem, Palestine, THOMAS Ann. Mag. N. H. (9) **3** p. 32.

Sorex obscurus malitiosus subsp. n. Warren Island, Alaska, JACKSON P. Biol. Soc. Washington **32** p. 23.

Talpa europæa Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 17.

†NESOPHONTIDAE.

†*Nesophontes edithae* and *micrus* contrasted, *longirostris* **sp. n.** Daiquiri Cuba, ANTHONY Bul. Amer. Mus. N. H. **41** p. 633.

ERINACEIDAE.

Erinacens europæus Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 18.

Paraechinus ludlowi **sp. n.**, Hitt, Euphrates, THOMAS J. Bombay Nat. H. S. **26** p. 748.

CHRYSOCHLORIDAE.

Chrysochloris minor **sp. n.** Klaver, Olifants River, Cape Province, ROBERTS Ann. Transvaal Mus. **6** p. 113.

IV.—CARNIVORA.

List of and key to Indo-Burmese forms, WROUGHTON J. Bombay Nat. H. S. **26** p. 338; from Siam, KLOSS J. Nat. Hist. Soc. Siam **3** p. 51; from eastern and central Borneo, GYLDENSTOLPE Stockholm, Vet.-Ak. Handl. **60** No. 6 p. 24; des phosphorites du Quercy, TEILHARD DE CHARDIN Ann. paléont. Paris **9** 1915 p. 103.

Fur bearing animals and the war, PETIT Paris Bul. Soc. zool. **44** p. 68.

A.—Carnassidentia.

FELIDAE.

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Ailurus fulgens Biologie and Stammesgeschichte, SOKOLOWSKY Zool. Anz. **50** p. 238.

Felis catus albinism, CASTLE Amer. Nat. **53** p. 265; inheritance of white-spotting and colour characters, WHITING Amer. Nat. **53** p. 473 and J. Exper. Zool. **25** p. 539; Entwicklungs-geschichte der Paukentasche, RUHWANDL Morph. Jahrb. Leipzig **50** p. 108; *onca* in California, MERRIAM J. Mamm. Baltimore **1** p. 38; †*veronis* **sp. n.** Pleistocene Florida, HAY Proc. U.S. Nat. Mus. **56** p. 108.

Lynx lynx in Alpes-Maritimes, CAZIOT Paris Bul. soc. zool. **44** p. 96.

Margay glaucula nicaraguae subsp. n., Nicaragua, ALLEN Bul. Amer. Mus. Nat. Hist. **41** p. 357.

Oncilla **gen. nov.** for *pardinoides oncilla* Thos. (spp. included being *pardinoides* Gray, *caucensis* Allen and *guthula* Hensel), ALLEN Bul. Amer. Mus. Nat. Hist. **41** p. 358.

Panthera pardus reichenowi subsp. n. Yokó, Kámerun, CABRERA Madrid Bol. Soc. Esp. Hist. Nat. **18** p. 481.

†*Trucifelis floridanus* teeth Pleistocene Florida, HAY Proc. U.S. Nat. Mus. **56** p. 106.

VIVERRIDAE.

Ariela Gray a synonym of *Mungos*, ALLEN J. Mamm. Baltimore **1** p. 30.

Crossarchus (genotype *C. obscurus* E. Cuv.) a valid generic name, ALLEN J. Mamm. Baltimore **1** p. 30.

Helogale ivori **sp. n.** Lumbo, Portuguese E. Africa, THOMAS Ann. Mag. N. H. (9) **4** p. 31.

Herpestes a tenable generic name (genotype *Viverra ichneumon* L.), ALLEN J. Mamm. Baltimore **1** p. 31.

Mungotidae a special family for mongooses, classification of and key to genera, POCOCK Ann. Mag. N. H. (9) **3** p. 515.

Mungos untenable as generic name for Indian mongooses, but is the valid name for "*Crossarchus*" *fasciatus* (Desmarest), ALLEN J. Mamm. Baltimore **1** p. 27.

Mungos semitorquatus uniformis subsp. n. Ophir District, West Sumatra, ROBINSON & KLOSS J. Fed. Malay Mus. **7** p. 302; *pulverulentus maritimus* subsp. n. Lamberts Bay, ROBERTS Ann. Transvaal Mus. **6** p. 114.

Osbornictis piscivora **gen.** *et* **sp. n.**, Niapu, Belgian Congo, ALLEN J. Mamm. Baltimore **1** p. 25.

Paguma larvata vagans subsp. n. Western Siam, KLOSS J. Nat. Hist. Soc. Siam **3** p. 73.

Paradoxurus birmanicus Wrought. a synonym of *P. hermaphroditus laotum* Gyld., GYLDENSTOLPE J. Nat. Hist. Soc. Siam **3** p. 147.

Prionodon linsang dental formula, ROBINSON & KLOSS J. Fed. Malay Mus. **7** p. 264.

Viverricula malaccensis thai subsp. n., Central Siam, KLOSS J. Nat. Hist. Soc. Siam **3** p. 352.

Xenogale p. 26, *microdon* p. 27, Akenge, Belgian Congo, **gen.** *et* **sp. n.**, ALLEN J. Mamm. Baltimore **1**.

HYAENIDAE.

†*Hyaena salonicae* **sp. n.** Upper Miocene, Salonica, ANDREWS Geol. Mag. Dec. vi **5** p. 541; *crocuta spelæa* Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 76.

CANIDAE.

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Canis characters and ancestry of the dog of the Yaghan-Indians of Tierra del Fuego, LÖNNBERG Ark. Zool. Stockholm **12** No. 13 p. 10; *australis* Kerr antedates *antarcticus* Shaw, OSGOOD J. Mamm. Baltimore **1** p. 34.

Cerdocyon thous fronto subsp. n. Chaco Austral, Rio de Oro, Argentina, LÖNNBERG Ark. Zool. Stockholm **12** No. 10 p. 13.

Chrysocyon brachyurus Ill. antedates *jubatus*, OSGOOD J. Mamm. Baltimore **1** p. 35.

Pseudalopex lycoides Phil. affinities, LÖNNBERG Ark. Zool. Stockholm **12** No. 13 p. 1.

URSIDAE.

Ursus horribilis habits, MILLS **136**; †*spelæus* and *ligusticus* Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 21.

MUSTELIDAE.

Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 47.

Aonyx synonymy, ALLEN J. Mamm. Baltimore **1** p. 23.

Lutra key to Sumatran species and subspecies, ROBINSON & KLOSS J. Fed. Malay Mus. **7** p. 307.

Lutreola cylipena skin from the Stadtkreise Elbing, MATSCHIE SitzBer. Ges. natf. Fr. Berlin **1919** No. 7.

Micraonyx **nom. nov.**, for *Leptonyx* Lesson 1842 preoccupied by *Leptonyx* Swainson 1821 (Aves) and *Leptonyx* Gray 1837 (Mamm.), ALLEN J, Mamm. Baltimore **1** p. 24.

Mustela erminea number of young, BARTHOLOMEW Scot. Nat. **1919** p. 181.

Tayra barbara sinuensis Humboldt may antedate *T. b. biologiæ* Thos., or *T. b. irara* Allen, OSGOOD J. Mamm. Baltimore **1** p. 35.

B.—Pinnipedia.

[Vacant.]

C.—Creodonta.

†*Amphictis nanus* **sp. n.** phosphorites du Quercy, TEILHARD DE CHARDIN Ann. Paléont. Paris **9** p. 158.

†*Cynodictis palmidens* **sp. n.** p. 126 phosphorites du Quercy, TEILHARD DE CHARDIN Ann. Paléont. Paris **9** p. 175.

†*Cynodon miacinus* p. 117, *cephalogalinus* **spp. n.** phosphorites du Quercy, TEILHARD DE CHARDIN Ann. Paléont. Paris **9** p. 157.

†*Pachycynodon tenuis* **sp. n.** phosphorites du Quercy, TEILHARD DE CHARDIN Ann. Paléont. Paris **9** p. 137

†*Plesictis stenogalinus* **spp. n.** p. 127, *major* p. 148, phosphorites du Quercy, TEILHARD DE CHARDIN Ann. Paléont. Paris **9**.

†*Proailurus medius* var. *crassa* var. n., phosphorites du Quercy, TEILHARD DE CHARDIN Ann. Paléont. Paris **9** p. 175.

V.—RODENTIA.

List of and key to Indo-Burmese forms, WROUGHTON J. Bombay Nat. H. S. **26** pp. 351 776; of Eastern and Central Borneo, GYLDENSTOLPE Stockholm Vet.-Ak. Handl. **60** No. 6 p. 28; of East Africa, account of U.S. Nat. Mus. collection, figures of skulls, of types, measurements, HOLLISTER U.S. Nat. Mus. Bul. **99** pt. II p. 9.

Method of taking incisive index, THOMAS Ann. Mag. N. H. (9) **41** p. 289.

APLODONTIDAE, SCIURIDAE AND ANOMALURIDAE.

Sciuridae from Siam, KLOSS J. Nat. Hist. Soc. Siam **3** p. 55.

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Funambulus coat-changes p. 727, WROUGHTON; *tristriatus* group p. 728, *thomasi* p. 729 Khandalla, Bombay Presidency, *gossei* p. 730 Nilgiri Hills. **spp. n.**, WROUGHTON & DAVIDSON J. Bombay Nat. H. S. **26**; *peninsulae* Miller a synonym of *insignis jalorensis* Bonhote, GYLDENSTOLPE J. Nat. Hist. Soc. Siam **3** p. 152.

Hylopetes harrisoni caroli subsp. n. E. Borneo, GYLDENSTOLPE Stockholm Vet.-Ak. Handl. **60** No. 6 p. 29.

Marmota marmota Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 79.

Paraxerus flavivittis mossambicus subsp. n. Lumbo, Portuguese E. Africa, THOMAS Ann. Mag. H. N. (9) **4** p. 31.

Petaurista petaurista lumholtzi subsp. n. Central Borneo, GYLDENSTOLPE Stockholm Vet.-Ak. Handl. **60** No. 6 p. 28.

Rhinosciurus laticaudatus saturatus subsp. n. Barisan Range, West Sumatra, ROBINSON & KLOSS J. Fed. Malay Mus. **7** p. 274.

Sciurus niger avicennia subsp. n. Florida, HOWELL J. Mamm. Baltimore **1** p. 37.

Tamiops macclellandi liantis subsp. n. S.E. Siam, KLOSS J. Nat. Hist. Soc. Siam **3** p. 379.

CASTORIDAE & GLIRIDAE.

Castor canadeneis missouriensis subsp. n., Bismarck, N. Dakota, BAILEY J. Mamm. Baltimore **1** p. 32; *fiber* Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 81.

Glis glis Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 83.

Muscardinus avellanarius Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 84.

DIPODIDAE & GEOMYIDAE.

Dipodomys jolonensis Monterey County p. 203, *berkeleyensis* Berkeley, *sanctiluciae* Monterey County p. 204, *californicus eximius* Sutter County, **spp.** *et* subsp. **n.** California, GRINNELL P Biol. Soc. Washington **32**.

Napaeozapus insignis frutectanus subsp. n., Crescent Lake, Oneida County, Wisconsin, JACKSON Proc. Biol. Soc. Washington **32** p. 9.

Perodipus not distinct from *Dipodomys*, GRINNELL P. Biol. Soc. Washington **32** p. 203; *elephantinus* p. 43 San Benito County, *swarthi* p. 44 San Luis Obispo County, *dixoni* p. 45 Merced County, *leucogenys* p. 46 Mono County, *monoensis* p. 46 Mono County, California **spp. n.,** GRINNELL Univ. Cal. Pub. Zool. **21**.

Thomomys douglasii tacomensis subsp. n. Washington, TAYLOR P. Biol. Soc. Washington **32** p. 169.

MURIDAE.

Muridae from Siam, KLOSS J. Nat. Hist. Soc. Siam **3** p. 60; Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 85.

Abrothrix suffusus modestior p. 202 Maiten, W. Chubat, *s. moerens* p. 203, Beatriz, Nahuel Huapi, N.W Patagonia, subspp. n., THOMAS Ann. Mag. Nat. Hist. London (9) **3**.

Acodon arenicola brain, MARELLI Physis **4** p. 439.

Akodon glaucinus p. 116, Chumbicha, Catamarca, *beatus* p. 204 Beatriz, Nahuel Huapi, *iniscatus* p. 205 Koslowsky Region, *i. collinus* p. 206 W. Chubut, Patagonia, *neocenus* p. 213 Upper Rio Negro, Patagonia, *benefactus* p. 214 Bonifacio, S.W. Buenos Ayres Province **3**; *tartareus* **4** p. 155 Tartagal, Salta, N. Argentina, **spp.** *et* subsp. **n.,** THOMAS Ann. Mag. N. H. (9).

Apodemus fridariensis thuleo subsp. n. Island of Foula, HINTON Scot. Nat. **1919** p. 178; *sylvaticus* spermatogenesis. FEDERLEY Helsingfors Acta Soc. Sc. Fenn. **48** No. 6.

Arbusticola **subgen. n.** of *Microtus*, *rubelianus* **sp. n.** Mts. of Transcaucasia, *r. colchicus* N. Koutais, p. 21, *r. intermedius* southern declivities of Central Caucasus, *r. daghestanicus* Daghestan, p. 22, subspp. n., SHIDLOVSKY Tiflis Bull. Terr. Exper. Stat. No. **2**.

Bandicota siamensis **sp. n.** Central Siam, KLOSS J. Nat. Hist. Soc. Siam **3** p. 382.

Cheliones **gen. n.,** for *Meriones hurrianae* Baluchistan and N.W. India, THOMAS Ann. Mag. N. H. (9) **3** p. 265; *hurrianae collinus* subsp. n., Kohat, N.W. Frontier India, THOMAS J. Bombay Nat. H. S. **26** p. 726.

Chionomys nivalis oseticus, *oseticus* ab. *lucidus*, *n. ighesicus* p. 36, *i.* mut. *gotshobi*, *n. trialeticus*, *n. satunini*, p. 37, *psharus* p. 38 Caucasus subspp. mut. *et* **sp. n.,** SHIDLOVSKY Tiflis Bull. Terr. Exper. Stat. No. **5**.

Cricetomys gambianus distribution and subspecies p. 282, *g. grahami* subsp. n. Nuba Mts. p. 283, *emini* group p. 285, *e. sanctus* Inkongo, Sankuru, *cosensi* Zanzibar Id. p. 286, *servorum* Lagos p. 288 subsp. *et* **spp. n.,** HINTON Ann. Mag. N. H. (9) **4**.

Dicrostonyx revision of American forms, *exsul* sp. n. St. Lawrence Island, G. M. ALLEN Bul. Mus. Comp. Zool. Harvard Coll. **62** p. 509.

Eligmodontia hirtipes jucunda subsp. n. Abrapampa, Jujuy, THOMAS Ann. Mag. N. H. (9) **4** p. 131; *griseoflava* brain, MARELLI Physis **4** p. 482.

Euneomys micropus alsus subsp. n. Maiten N. Chubut, N.W. Patagonia, **3** p. 202; *dabbenei* **sp. n.** Santa Cruz,

Patagonia **4** p. 127; (*Auliscomys*) *leucurus* **sp. n.** La Lagunita, Maimara, Jujuy, THOMAS Ann. Mag. N. H. (9) **4** p. 129.

Geoxus p. 207 **gen. n.** for *Oxymycterus valdivianus* Phil., *fossor* p. 208 Maiten, W. Chubat, N.W. Patagonia **sp. n.**, THOMAS Ann. Mag. N. H. (9) **3**.

Gerbillus floweri p. 559, *bonhotei* p. 560 N. Sinai **spp. n.**, THOMAS Ann. Mag. N. H. (9) **3**; *cheesmani* **sp. n.** Mesopotamia, THOMAS J. Bombay Nat. H. S. **26** p. 748.

Hesperomys carillus argurus subsp. n. Abrapampa, Jujuy, THOMAS Ann. Mag. N. H. (9) **4** p. 130.

Irenomys **gen. n.** for *Reithrodon longicaudatus* Phil., THOMAS Ann. Mag. N. H. (9) **3** p. 201.

Leggada generically distinct from *Mus* p. 418, synopsis of Indian species p. 417, *nitidula popaea* subsp. n. Mt. Popa, Burma (Dry Zone) p. 420, THOMAS J. Bombay Nat. H. S. **26**.

Meriones taxonomic value of bullae and status of previously described forms p. 263, lectotype of *melanurus* Rupp. chosen p. 264, *pallidus tripolius* p. 265 N.W. Tripoli, *pelerinus* p. 266 Tebuk, N.W. Arabia, *libycus caudatus* p. 267 Fer.ijan, Tripoli, *syrius* p. 268 Karytein, Syrian Desert, *charon* p. 269 Karun River, Persia, *ambrosius* p. 270 N.E. of Ahwaz Persia, *isis* p. 271 Ramleh, Alexandria, L. Egypt, *blackleri lycaon* p. 272 Kara Bagh, Lycaonia, Asia Minor, subspp. *et* **spp. n.**, THOMAS Ann. Mag. N. H. (9) **3**.

Microtus see *Chinomys* and *Arbusticola*.

Mus synopsis of Indian species p. 417, genus restricted to Palaearctic forms p. 418, *gentilulus* **sp. n.** Aden p. 421, THOMAS J. Bombay Nat. H. S. **26**.

Mycteromys crociduroides vulcani subsp. n. West Java, ROBINSON & KLOSS Ann. Mag. N. H. (9) **4** p. 378.

Neotoma cinerea cinerea p. 50, *c. occidentalis* p. 56, identity of *Teonoma spelaea* Sinclair with *N. c. occidentalis* p. 57, distribution habits, economic status p. 67, DIXON Univ. Cal. Pub. Zool. 21.

Nesokia buxtoni **sp. n.** Amara, Mesopotamia, THOMAS J. Bombay Nat. H. S. **26** p. 423.

Oryzomys flavescens brain, MARELLI Physis **4** p. 448.

Otomys silberhaueri **sp. n.** Lormarins, Paarl District, S. Africa, ROBERTS Ann. Transvaal Mus. **6** p. 114.

Rattus griseiventer rahengis p. 74, *rajah siarma* p. 75; *bowersi lactiventer* p. 80, *kennethi* p. 81, subspp. *et* **sp. n.** Western Siam; *rajah koratis* p. 376, *r. kramis* p. 377, *rattus lanensis* p. 378, *r. kramensis*, *r. mesanis*, *r. koratensis* p. 370 subspp. n., Siam, *sakaratensis* related to *jerdoni* and not to *concolor*, p. 381, KLOSS J. Nat. Hist. Soc. Siam **3**; *sabanus mayapahit* p. 375, *bukit treubii* p. 376, *cremoriventer cretaceiventer* p. 377 subspp. n. West Java, ROBINSON & KLOSS Ann. Mag. N. H. (9) **4**; *rattus wroughtoni* Nilgiri Hills p. 384, *r. gangutrianus* Kumaon p. 389, *r. sikkimensis* Sikkim p. 394, *r. khyensis* Chin Hills p. 398, *r. tikos* Tenasserim p. 400, *r. tatkonensis* Chindwin p. 402, *macmillani* Upper Chindwin p. 409, *nitidus obsoletus* Chin Hills p. 415 skull measurements p. 716, subspp. *et* **sp. n.**, HINTON J. Bombay Nat. H. S. **26**; *norvegicus* and *rattus* methods of destruction, BOULENGER P.Z.S. **1919** p. 227; Rat problem in India, KUNHARDT p. 143, TAYLOR p. 173; JUSTICE p. 179 Ind, J. Med. Res. Calcutta (Spec. No.) **1919**; Inheritance in albino rats, WHITING & KING J. Exper. Zool. **26** p. 55.

Reithrodon cuniculoides brain, MARELLI Physis **4** p. 444.

Sigmodon hispidus cienegae subsp. n. Pima County, Arizona, HOWELL P. Biol. Soc. Washington **32** p. 161.

Steatomys loveridgei **sp. n.** Lumbo, Portuguese E. Africa, THOMAS Ann. Mag. N. H. (9) **4** p. 33.

Tautatus amended definition of genus, KLOSS J. Nat. Hist. Soc. Siam **3** p. 71.

Teonoma spelaea Sinclair a synonym of *Neotoma cinerea occidentalis*, DIXON Univ. Cal. Pub. Zool. **21** p. 57.

SPALACIDAE.

Spalax (*Mesospalax*) *labaumei* **sp. n.** Eskischehir, Kleinasien, MATSCHIE Sitz-Ber. Ges. natf. Fr. Berlin **1919** p. 35.

OCTODONTIDAE, HYSTRICIDAE, CAVIIDAE, &C.

Abrocoma cinerea **sp. n.** Cerro-Casabindo, Jujuy, THOMAS Ann. Mag. N. H. (9) **4** p. 132.

†*Boromys ofella* and *torrei* dentition, ANTHONY Bul. Amer. Mus. N. H. **41** p. 631.

Capromys pilorides p. 628, *nana* p. 629, *columbianus* p. 630 cranial and dental characters, ANTHONY Bul. Amer. Mus. N. H. **41**.

Cavia tschudii arequipæ **nom. nov.** for *t. pallidior* Thomas 1917, not *Kerodon niata pallidior* Thomas 1902. (=*Caria* (*Monticavia*) *n. pallidior*, OSGOOD J. Mamm. Baltimore **1** p. 34.

Ctenomys fochi p. 117 Chumbicha, Catamarca; *haigi* p. 210 Maiten, W. Chubat, *h. lentulus* p. 211 Upper Rio Negro, Patagonia, **spp.** *et* subsp. **n.**, THOMAS Ann. Mag. N. H. (9) **3**; *sylvanus* **sp. n.** Tartagal, Salta, N. Argentina, THOMAS Ann. Mag. N. H. (9) **4** p. 155.

Dinomys pacarana? characters and figs. of skulls, RIBEIRO Arch. Escol. Sup. Agric. Med. Vet. Rio de Janeiro **2** p. 13.

Galea negrensis **3** p. 211, Upper Rio Negro, Patagonia; *comes* **4** p. 134 Abrapampa, Jujuy, **spp. n.**, THOMAS Ann. Mag. N. H. (9).

Hystrix hirsutirostris aharonii p. 61, *h. schmitzi* p. 64 further descriptions, *narynensis* **sp. n.** Naryn, Turkestan p. 67, MÜLLER SitzBer. Ges. natf. Fr. Berlin **1919.**

Lagidium vulcani **sp. n.** Cerro Casabindo, Jujuy, THOMAS Ann. Mag. N. H. (9) **4** p. 133.

LEPORIDAE & OCHOTONIDAE.

Lepus europæus p. 77, *timidus* p. 78, Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919).

Nesolagus netscheri distribution, habits, moult, and notes on specimens, JACOBSON & KLOSS J. Fed. Malay Mus. **7** p. 293.

Ochotona princeps lutescens p. 105 Banff, Alberta, *uinta ventorum* Wind River Mts., Wyoming, *u. lemhi* Lembi Mts., Idaho p. 106, *u. nevadensis* Ruby Mts., Nevada, *saxatilis incana* Pecos Baldy, New Mexico p. 107, *fenisex brunnescens* Keechelus, Washington p. 108, *f. fumosa* Mt. Jefferson, Oregon, *schisticeps jewetti* Baker County, Oregon p. 109, *s. fuscipes* Parawan Mts., Utah p. 110, subspp. n., HOWELL P. Biol. Soc. Washington **32**.

Oryctolagus cuniculus huxleyi Porto Santo and evolution, GIGLIO-TOS Roma Riv. Biol. **1** p. 50.

VI.—UNGULATA.

Ungulata of Eastern and Central Borneo, GYLDENSTOLPE Stockholm Vet.-Ak. Handl. **60** No. 6 p. 47; "Glossentiere," SZALAY Zool. Ann. Würzburg **7** p. 127.

A.—Artiodactyla.

Androgenic origin of horns and antlers, BEMMELEN Proc. Sci. K. Akad. Wet. Amsterdam **21** p. 570.

BOVIDAE.

Bovidae Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 125.

Alces alces conservation of yellowstone herds, GRAVES & NELSON U.S. Dept. Agric. Circ. **51** 1919.

Anoa see *Bubalus*.

Antelopes of Southern Sudan, notes on habits and distribution, HAMILTON P.Z.S. **1919** p. 341.

Bison Palæolithic pictures in cave of Pena de Candamo, HERNANDEZ-PACHECO Madrid Mem. Com. Invest. Paleont. Prehist, **24** pp. 85 183.

Bos pictures in cave of Pena de Candamo, HERNANDEZ-PACHECO Madrid Mem. Com. Paleont. Prehist. **24** p. 74 p. 181.

Bubalus (selected by Lydekker as "first reviser") must stand as genus name if *Bubalus* and *Anoa* be combined in one genus, but *Anoa* probably generically distinct, HOLLISTER P. Biol. Soc. Washington 32 p. 45.

Budorcas taxicolor whitei anatomy, LANDER P.Z.S. **1919** p. 203.

Capra Palaeolithic pictures in cave of Pena de Cadamo, HERNANDEZ-PACHECO Madrid, Mem. Com Invest. Paleont Prehist. **24** pp. 94 186.

Capricornis sumatraensis annectens subsp. n. S.W. Siam, KLOSS J. Nat. Hist. Soc. Siam **3** p. 391.

Cephalophus notes on specimens in Congo Museum p. 162, *nigrifrons kivuensis* Lake Kivu p. 165, *n. lusumbi* Katanga p. 168 subspp. n., LÖNNBERG Rev. Zool. Africaine **7**.

Damaliscus tiang in Southern Sudan, habits and distribution, HAMILTON P.Z.S. **1919** p. 341.

Oryx gazella breeding at Gooilust, BLAUUW P.Z.S. **1919** p. 29.

Ovis comosa nom. nov. for *Ovis jubata* Peters (*nec.* Kerr), *mongolica* Sev. (used by Lydekker as substitute for *jubata*) preoccupied, HOLLISTER P. Biol. Soc. Washington **32** p. 46.

Rupicapra Palaeolithic pictures in cave of Pena de Candamo, HERNANDEZ-PACHECO Madrid Mem. Com. Invest. Paleont. Prehist. **24** pp. 98 187.

Sylvicapra notes on specimens in the Congo Museum p. 177, *grimmia uvirensis* N.W. Tanganyika p. 179, *g. lobeliarum* Mt. Elgon p. 181, subspp. n. LÖNNBERG Rev. Zool. Africaine **7**.

GIRAFFIDAE.

Okapia johnstoni note on living specimen, CABRERA Madrid Bol. Soc. Esp. Hist. Nat. **19** p. 443; habits and trapping, LANG New York Zool. Soc. Bul. **21** p. 1601.

CERVIDAE.

Cervidae Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 105.

Cervus elaphus antlers, TOLDT Zool. Jahrb. Jena **36** p. 245 and Wien, Verh. Zool. Bol. Ges. **68** p. 68; Arterienverlauf auf der Zehnerkolbenstange, Einfluss auf die Geweih form, RHUMBLER Zs. wiss. Zool. **115** p. 337; Palaeolithic pictures of various species in cave of Pena de Candamo p. 56, *elaphus* and *dama* in Spanish Pleistocene, HERNANDEZ-PACHECO Madrid Mem. Com. Invest. Paleont. Prehist. **24** p. 177.

Mazama rufa toba p. 2 Chaco Central, *r. rosii* p. 5 Chaco Austral, *simplicicornis argentina* p. 10 Chaco Central, Rio de Oro, Argentina, subspp. n., LÖNNBERG Ark. Zool. Stockholm **12** No. 10.

Rangifer mcguirei **sp. n.** Kletson Creek, Yukon, FIGGINS Proc. Colorado Mus. Nat. Hist. Dec. 1919 (unpaged).

TRAGULIDAE & HYEMOSCHIDAE.

Tragulidae and *Hyemoschidae* nomenclature p. 1, external characters p. 2, penis p. 8, generic characters and diagnoses of genera p. 10, POCOCK P.Z.S. **1919**.

Hyemoschus generic characters, POCOCK P.Z.S. **1919** p. 11.

Moschiola generic characters, POCOCK P.Z.S. **1919** p. 11.

Tragulus generic characters, POCOCK P.Z.S. **1919** p. 10.

SUIDAE & HIPPOPOTAMIDAE.

Hippopotamus amphibius characters of foetus and integument, TOLDT Zool. Anz. Leipzig **50** p. 65 and Biol. Centralbl. Leipzig **39** p. 346.

Sus scrofa p. 99, *s. antiquus* p. 102, *palastris* p. 103, *domesticus* p. 104, Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919); Palaeolithic pictures in cave of Pena de Candamo, HERNANDEZ-PACHECO Madrid Mem. Com. Invest. Paleont. Prehist. **24** pp. 102 189.

B.—Perissodactyla.

EQUIDAE.

Equus quagga in Southern Sudan, HAMILTON P.Z.S. **1919** p. 346; *caballus* p. 92, *asinus* p. 96 Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919); Palaeolithic pictures in cave of Pena de Candamo, HERNANDEZ-PACHECO Madrid Mem. Com. Invest. Paleont. Prehist. **24** pp. 103 190; †*cazurroi* **sp. n.** Pleistocene (Solutréen) San Julián de Ramis, Gerona, CABRERA Barcelona Treballs Mus. Ci. Nat. **7** p. 8.

†*Hipparion* remains from Miocene of Salonica, ANDREWS Geol. Mag. [VI] **5** p. 542; migrations et les connexions continentales au Miocène supérieur, JOLEAUD C. R. Acad. Sci. **168** p. 177.

†*Lophiotherium pygmæum* teeth Eocene, Belgium, DEPÉRET Paris Bul. soc. géol. (4) **12** p. 813.

RHINOCEROTIDAE.

†*Aceratherium albigense* lower jaw Stampien, Antwerp, DEPÉRET Paris Bul. soc. géol. (4) **12** p. 816.

Rhinoceros †*merckii* Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919) p. 89; (*Ceratorhinus*) *tagicus* Oligocene supérieur de Budenheim, près Mayence, ROMAN Paris Bul. soc. géol. (sér. 4) **14** p. 349.

†EXTINCT FAMILIES.

†*Chasmotherium minimum* teeth Eocene, Belgium, DEPÉRET Paris Bul. soc. géol. (4) **12** p. 811.

†*Lophidon medium* mutations, Belgium Eocene, DEPÉRET Paris Bul. soc. géol. (4) **12** p. 809.

†*Moropus cooki* note on skeletons in American Museum, OSBORN Bul. Geol. Soc. Amer. **29** p. 131.

†*Propalæotherium isselanum* teeth Eocene, Belgium, DEPÉRET Paris Bul. Soc. géol. (4) **12** p. 812.

D. and *E.*—Proboscidea and Hyracoidea.

Proboscidea classification, OSBORN Bul. Geol. Soc. Amer. **29** p. 133; fossil New York State, HAY Science New York n. s. **49** p. 377.

Elephas molars and phylogeny, STEFANESCU C R. Acad. Sci. Paris **168** pp. 97 464 906 1208 1329 **169** p. 148; *africanus* races and habits, LÖNNBERG Fauna och Flora **13** p. 209; *africanus capensis* notes on specimen from Addo Bush (photographs), unreliability of characters used for differentiating local races, CHUBB Ann. Durban Mus. **3** p. 126; *maximus* characters of 9 months' old specimen, TOLDT Zool. Anz. Leipzig **50** p. 65; †*antiquus* p. 142, †*primigenius* p. 146, Quaternary Regione Veneta, FABIANI Padova Mem. Ist. Geol. **5** 1919 (1919); †*imperator* jaw Pleistocene, Florida, HAY Proc. U.S. Nat. Mus. **56** p. 103.

†*Tetrabelodon angustidens* from Imbros Miocene, ANDREWS Geol. Mag. VI] **5** p. 542.

VII & VIII.—CETACEA & SIRENIA.

Cetacea evolution, descent from *Hyaenodontidae*, classification and affinities of living and fossil genera, WINGE Vidensk. Medd. Dansk naturh. Foren. **70** p 59; Knorpelschädel p. 1; Entwicklungsgeschichte der Wirbelsäule, p. 371, BURLET Morph. Jahrb. Leipzig **50**; stranded on British coasts during 1918, HARMER Brit. Mus. Report No. **6**; Subantarctic whaling, HARMER London Proc. R. Inst. **1919** p. 1.

Sirenia Entwicklungsgeschichte, FREUND Morph. Jahrb. Leipzig **49** p. 353.

Balaenoptera musculus (*physalus*) p. 6, *borealis* p. 37, at Scottish stations, THOMPSON Scot. Nat. **1919**; sp. [*sibbaldii*] specimen stranded on south-coast of Preanger regencies, osteology, REUTER Treubia, Batavia **1** p. 101; *musculus* (*sibbaldii*) notes on Australasian specimens, WAITE Rec. S. Austral. Mus. **1** p. 157; *edeni* skeletons at Calcutta, ANDREWS Rec. Ind. Mus. **15** p. 105.

†*Eoplatanista* **gen. n.** p. 5, *italica* **sp. n.** p. 9, Miocene Belluno, PIAZ Padova Mem. Ist. Geol. **5** 1916 (1919).

Globicephalus melas skeleton, SCOTT & LORD Proc. R. Soc. Tasmania **1919** p. 13.

Hyperoodon rostratus at Scottish stations, migration and food, THOMPSON Scot. Mat. **1919** p. 1.

Lagenorhynchus albirostris development of skull, BURLET Morph. Jahrb. Leipzig **49** p. 393.

Megaptera longimana at Scottish stations, THOMPSON Scot. Nat. **1919** p. 4.

Mesoplodon mirum specimen stranded at Liscannor, Co. Clare, HARMER Brit. Mus. Report Stranded *Cetacea* No. **6** p. 18.

Orca gladiator skeleton SCOTT & LORD Proc. R. Soc. Tasmania **1919** p. 9.

Physeter macrocephalus anatomy of foetus, BEDDARD Ann. Durb. Mus. **2** p. 129.

Pseudorca crassidens skeleton, SCOTT & LORD Proc. R. Soc. Tasmania **1919** p. 5.

†*Squalodelphis* **gen. n.** p. 5 *fabianii* p. 15 Miocene Belluno, PIAZ Padova Mem. Ist. Geol. **5** 1917 (1919).

†*Trichechus antiquus* jaw Pleistocene, Florida, HAY Proc. U.S. Nat. Mus. **56** p. 109.

Ziphius cavirostris on coast of Queensland, LONGMAN Proc. Q. Soc. Queensland **31** p. 90; Note on two specimens on coast of Málaga, CABRERA Madrid Bol. Soc. Esp. Hist. Nat. **19** p. 468.

IX.—EDENTATA.

Bradypus tridactylus habits, LUEDERWALDT Rev. Mus. Sao Paulo **10** p. 793.

Euphractus sexcinctus flavimanus Desmarest antedates *E. s. gilvipes* Allen, OSGOOD J. Mamm. Baltimore **1** p. 33.

Manis taxonomic value of tail characters p. 17; species represented in pl. 74 Cuvier's Règne Animal p. 429, ANTHONY Bul. Muséum Paris **1919.**

Orycteropidae account of U.S. Nat. Mus. collection from East Africa, HOLLISTER U.S. Nat. Mus. Bul. **99** pt. ii p. 169.

†*Thinobadistes segnis* **gen.** *et* **sp. n.**, Pleistocene Florida, HAY Proc. U.S. Nat. Mus. **56** p. 104.

Tolypeutes matacus Desmarest replaces *conurus* Geoff., OSGOOD J. Mamm. Baltimore **1** p. 33.

Zaëdyus pichiy Desmarest replaces *ciliatus* Fisher, OSGOOD J. Mamm. Baltimore **1** p. 33.

X.—MARSUPIALIA.

Marsupialia Review of genera, characters, habits, literature and distribution, CABRERA Genera Mammalium Madrid **1919** p. 23.

Amperta **gen. n.** for *Chaetocercus cristicauda* Krefft, CABRERA Gen. Mamm. p. 65 [=*Dasycercus*, Peters, 1875].

Didelphidae key to genera, CABRERA Gen. Mamm. p. 29.

Holothylax **gen. n.** for *Didelphis opossum* L., CABRERA Gen. Mamm. p. 47 [=*Metachirops*, Matschie, 1916].

Minuania **gen. n.** for *Didelphis dimidiata* Wagner, CABRERA Gen. Mamm. p. 43.

Trichosurus vulpecula development of urogenital system, FRASER J. Anat. London **53** p. 97.

XI.—MONOTREMATA.

Monotremata Review of Genera characters, habits, literature and distribution, CABRERA Genera Mammalium Madrid 1919 p. 9.

INDEX TO NAMES

OF

NEW GENERA AND SUBGENERA

RECORDED IN THIS VOLUME

(INCLUDING NEW NAMES FOR GENERA PREVIOUSLY ESTABLISHED).*

Abiomyia *Kertész* Ins. 217
Abrosiomyia *Kertész* Ins. 217
Acanthatrium *Faust* Verm. 18
Acanthemblemaria *Metzelaar* Pisces 17
Acanthohelea *Kieffer* Ins. 206
Acanthopsilus *Portevin* Ins. 115
Acontiothespa *Hebard* Ins. 268
Acothrura *Melichar* Ins. 252
Acratoleon *Banks* Ins. 201
Acrobrachys *Horváth* Ins. 240
Acromeseres *Dyar* Ins. 190
Acroporoblatta *Hebard* Ins. 266
Acrossocheilus *Oshima* Pisces 13
Acrotmetus *Horváth* Ins. 237
Acryptophagus *Grouvelle* Ins. 119
Acutia *Kaye* Ins. 182
Adelpherupa *Hampson* Ins. 190
Adiaclema *Enderlein* Ins. 171
Adiernia *Enderlein* Ins. 171
Adinopsis *Cameron* Ins. 110
Aediodina *Strand* Ins. 190
Aelurophryne *Boulenger* Rept. 12
Aenigmatopoeus *Schmitz* Ins. 224
Afrodecius *Jeannel* Ins. 242
Agastomyia *de Meyere* Ins. 214
Ageiton *Kertész* Ins. 217
Agnosicrabro Kohl Ins. 150
Agoraula *Meyrick* Ins. 196
Agriogenia *Banks* Ins. 150
Ahyborhyssa *Enderlein* Ins. 157
Aidomyia *Kertész* Ins. 217
Ainia *Jordan* Pisces 11
Akermania *Collinge* Crust. 15
Aknisus *McAtee* Ins. 241
Akotropis *Matsumura* Ins. 252
Alepidiella *Poppius* Ins. 247
Algoella *Kieffer* Ins. 165.
Alienus *Bridwell* Ins. 165
Alisea *Jordan & Gilbert* Pisces 12
Alkmaria *Horst* Verm. 28
Allanteon *Kieffer* Ins. 165
Allohelea *Kieffer* Ins. 207
Allomicrops *Kieffer* Ins. 165
Allomyia *Mallach* Ins. 232
Alloscenia *Enderlein* Ins. 171
Alocinna *Annandale* and *Prashad* Moll. 36.
Alophytophilus *Brian* Crust. 16
Alycaulus *Rübsaamen* Ins. 203
Amaurogramma *Braun* Ins. 196
Amauropus *Reitter* Ins. 114
Ambo *Chamberlin* Verm. 28
Ambopogon *Greene* Ins. 232
Ammogiton *Peyerimhoff* Ins. 131
Ampera *Distant* Ins. 240
Amperta *Cabrera* Mam. 27
Amphidexius *Bergroth* Ins. 237
Amyssonotum *Horváth* Ins. 237
Anaclista *Kieffer* Ins. 165
Anadelosemia *Dyar* Ins. 190
Anahydrophorus *Becker* Ins. 222
Analgopsis *Trouessart* Arachn. 21
Anametopochaeta *Townsend* Ins. 226
Anaporia *Townsend* Ins. 226
Anapteris *Van Winkle* Moll. 58
Ancyloonema *Szépligeti* Ins. 157
Ancyroniscus *Caullery* and *Mesnil* Crust. 15.

* The total number of names in this index is 1,344; distributed as follows, viz.:—*Protozoa* 19; *Coelenterata* 22; *Echinoderma* 27; *Vermidea* 87; *Brachiopoda* 5; *Bryozoa* 2; *Mollusca* 66; *Crustacea* 11; *Arachnida* 46; *Myriopoda* 10; *Insecta* 917; *Prochordata* 4; *Pisces* 78; *Reptilia* 11; *Aves* 21; *Mammalia* 18. The total last year was 1,297.

Anergatides *Wasmann* Ins. 153
Aneuromorpha *Bergroth* Ins. 242
Angianus *Sharp* Ins. 135
Anhydrophryne *Hewitt* Rept. 11
Anhylaeus *Bridwell* Ins. 146
Anisoloboceras *Trueman* Moll. 60
Anisostephus *Rübsaamen* Ins. 203
Anisotylus *Timberlake* Ins. 168
Anommatochora *Wasmann* Ins. 110
Anommatonia *Wasmann* Ins. 110
Anoscinella *Becker* Ins. 232
Antelmia *Hustache* Ins. 135
Anthonomidius *Reitter* Ins. 135
Anychus *McGregor* Arachn. 20
Antiguastraea *Vaughan* Coel. 14
Antiobactrum *Chamberlin* Verm. 28
Antitheton *Hebard* Ins. 266
Anypoptus *Durrant* Ins. 196
Anzacia *de Dalmas* Arachn. 15
Aoria *Jordan* Pisces 13
Apelma *Kieffer* Ins. 207
Apericlista *Enslin* Ins. 171
Aphanogramme *Dodero* Ins. 114
Aphantorhapha *Townsend* Ins. 226
Aphelothrix *Chamberlin* Verm. 28
Aphthomonas *Stauffacher* Prot. 23
Aphycitopsis *Dyar* Ins. 190
Aphycomorpha *Timberlake* Ins. 168
Apobletodes *Desbordes* Ins. 116
Apothetodes *Meyrick* Ins. 196
Apria *Grouvelle* Ins. 117
Apristocera *Kieffer* Ins. 165
Apsteinia *Metcalf* Prochord. 2
Apterolophus *Gahan* Ins. 168
Apterostylus *Pic* Ins. 127
Arame *Andrewes* Ins. 105
Aravaipa *Townsend* Ins. 226
Arbelopsis *Poppius* Ins. 242
Arbusticola *Shidlovsky* Mam. 22
Archaeocryptolaria *Chapman* Coel. 8
Archaeolafoea *Chapman* Coel. 8
Archaeopilumnus *Rathbun* Crust. 12
Archaeornis *Petronievics* Aves 45
Archepsychops *Tillyard* Ins. 201
Archibonellia *Fischer* Verm. 35
Archohelia *Vaughan* Coel. 14
Arctosyrphus *Frey* Ins. 225
Areopsammia *Dietrich* Coel. 14
Arisocephalus *Lea* Ins. 126
Aristichthys *Oshima* Pisces 13
Aristopsyche *Tillyard* Ins. 200
Arnoldina *Jordan & Gilbert* Pisces 15
Arrhenothrips *Hood* Ins. 261
Arunena *Swinhoe* Ins. 179
Arysepyris *Kieffer* Ins. 166
Asantorga *Melichar* Ins. 252
Aschistonyx *Rübsaamen* Ins. 203
Asclerostoma *Fleischer* Ins. 134
Ascolaimus *Ditlevsen* Verm. 22
Asemothrips *Hood* Ins. 261
Ashantina *Kertész* Ins. 217
Asiphonaphis *Wilson* Ins. 257
Aspidacantha *Kertész* Ins. 217
Asticta *Wasmann* Ins. 110
Astilbides *Wasmann* Ins. 110
Astiroderma *Horváth* Ins. 237
Astyloglossa *Pic* Ins. 127
Astylomorphus *Pic* Ins. 127
Asyncritus *Kertész* Ins. 217
Asyndetaula *Meyrick* Ins. 196
Ateloza *Enderlein* Ins. 171
Atopognathus *Cushman* Ins. 157
Atritomellus *Kieffer* Ins. 166
Atrypoderma *Townsend* Ins. 226
Attonda *Swinhoe* Ins. 185
Aubaeanetia *Townsend* Ins. 226
Auchenoplus *Bergroth* Ins. 241
Augustivestis *Pilsbry* Moll. 46
Austroblattula *Tillyard* Ins. 266
Austrolydella *Townsend* Ins. 226
Austropeplus *Poppius* Ins. 247
Austrosialis *Tillyard* Ins. 201
Austrothrips *Brèthes* Ins. 261
Authaemon *Turner* Ins. 187
Auxentius *Horváth* Ins. 237
Auxides *Jordan* Pisces 16
Avakubia *Pilsbry* Moll. 46
Ayuthia *Distant* Ins. 251
Azalois *Jordan & Gilbert* Pisces 12
Azurella *Jordan* Pisces 15

Babylas *Horváth* Ins. 237
Bactridothrips *Karny* Ins. 261
Bakeriella *Poppius* Ins. 247
Balanochaeta *Chamberlin* Verm. 28
Balella *Stechow* Coel. 8
Balwantia *Prashad* Moll. 55
Bangsia *Penard* Aves 68
Barberiella *Poppius* Ins. 247
Basleocrinus *Wanner* Echin. 14
Bassocryptus *Habermehl* Ins. 158
Bathraula *Meyrick* Ins. 196
Bathroxena *Meyrick* Ins. 197
Becheiceras *Trueman* Moll. 60
Belmontia *Tillyard* Ins. 201
Belonarion *Pilsbry* Moll. 47
Beralitra *d'Orchymont* Ins. 108
Berlesella *Trouessart* Arachn. 21
Beskioleskia *Townsend* Ins. 226
Betatropis *Matsumura* Ins. 252
Bezzimyia *Townsend* Ins. 226
Bibrachium *Stechow* Coel. 8
Bigaena *v. Eecke* Ins. 177
Bironiola *Horváth* Ins. 242
Blapidocamaria *Pic* Ins. 131
Blapidocampsia *Pic* Ins. 131
Bobba *Bergroth* Ins. 242
Bocageia *Pilsbry* Moll. 50
Bolbocrinus *Wanner* Echin. 14
Bolerus *Grouvelle* Ins. 119

Borboridea *Kertész* Ins. 217
Botaurites *Ammon* Aves 50
Bothriencyrtus *Timberlake* Ins. 168
Bothriomiridius *Poppius* Ins. 247
Bourgelatia *Railliet, Henry* and *Bauche* Verm. 22
Bourgeonia *Schouteden* Ins. 242
Brachyloma *Portevin* Ins. 115
Brachynidius *Reitter* Ins. 105
Brachynolomus *Reitter* Ins. 105
Brachysolen *Horváth* Ins. 237
Bradybamon *Marshall* Ins. 135
Branchethus *Chamberlin* Verm. 28
Brannerion *Jordan* Pisces 12
Bremiola *Rübsaamen* Ins. 203
Brethesia *Timberlake* Ins. 168
Bromeliaemiris *Schumacher* Ins. 247
Bromocoris *Horváth* Ins. 237
Brooksia *Metcalf* Prochord. 2
Bruesiola *Kieffer* Ins. 166
Bryocoropsis *Schumacher* Ins. 247
Buboblatta *Hebard* Ins. 266
Bufolucilia *Townsend* Ins. 226
Bufonus *Eggers* Ins. 138
Bulbiceps *Jordan* Pisces 17
Burmitembia *Cockerell* Ins. 263
Bylgides *Chamberlin* Verm. 28
Bythocrates *Meyrick* Ins. 197

Cacozophera *Dyar* Ins. 191
Cadne *Heller* Ins. 145
Calholaspis *Berlese* Arachn. 18
Calidivitrina *Pilsbry* Moll. 47
Calladimyia *Dyar* Ins. 212
Calocoridea *Poppius* Ins. 247
Calothrombium *Berlese* Arachn. 20
Calycocrinus *Wanner* Echin. 14
Calyptromyia *Villeneuve* Ins. 226
Camillina *Berland* Arachn. 15
Camposella *Cole* Ins. 221
Camptochironomus *Kieffer* Ins. 207
Campyloplesis *Dyan* Ins. 191
Capucinella *Hebard* Ins. 266
Cardinirhynchia *Buckman* Brach. 5
Cardopomyia *Kertész* Ins. 217
Carinodrillia *Dall* Moll. 28
Casahuiria *Townsend* Ins. 226
Cataliptus *Bezzi* Ins. 207
Catancyla *Hampson* Ins. 191
Catarractes *Bernhauer* Ins. 110
Catopodes *Portevin* Ins. 115
Caulleriella *Chamberlin* Verm. 28
Caulomyia *Rübsaamen* Ins. 203
Cechorismenus *Kertész* Ins. 218
Cecidophila *Rübsaamen* Ins. 203
Cedna *Heller* Ins. 145
Cenogenus *Chamberlin* Verm. 28
Cenothrix *Chamberlin* Verm. 28
Centrarchites *Cockerell* Pisces 11
Centroptiloides *Lestage* Ins. 263
Centrostephus *Horváth* Ins. 237
Cephalocapsidea *Poppius* Ins. 247
Ceratoperia *Enderlein* Ins. 171
Ceratozygum *Horváth* Ins. 237
Ceratucha *Turner* Ins. 188
Cercothrips *Karny* Ins. 261
Ceylonicola *Friese* Ins. 147
Chaetolauxania *Kertész* Ins. 232
Chalcomorphus *Pic* Ins. 128
Chamaelinorops *Schmidt* Rept. 9.
Chamaelycus *Boulenger* Rept. 10
Charapemyia *Townsend* Ins. 227
Charidiplosis *Tavares* Ins. 203
Chaunorhynchus *Chamberlin* Verm. 29
Cheilaster *Bernhauer* Ins. 110
Cheilocapsidea *Poppius* Ins. 247
Cheliones *Thomas* Mam. 22
Chelogonobolus *Carl* Myr., Arachn. 25
Chersomenida *Horváth* Ins. 237
Chicolepis *Cockerell* Pisces 11
Chilopsis *Hampson* Ins. 191
Chlerogas *Cockerell* Ins. 147
Chlorosarcophaga *Townsend* Ins. 227
Choctella *Chamberlin* Myr., Arachn. 25
Choniolaimus *Ditlevsen* Verm. 22
Chromatonotus *Hebard* Ins. 266
Chrysopoctonus *Cushman* Ins. 158
Cibdeloses *Durrant* Ins. 197
Cimicicapsus *Poppius* Ins. 247
Cladapelochrus *Pic* Ins. 128
Clavopsella *Stechow* Coel. 8
Cleistoplax *Enderlein* Ins. 171
Cleobonnea *Dyar* Ins. 212
Cleopomiarus *Pierce* Ins. 135
Clipeodinium *Pascher* Prot. 25
Cnecostolus *Reitter* Ins. 106
Cnemathraupis *Penard* Aves 68.
Cnemopsilus *Portevin* Ins. 115
Cnemoscopus *Bangs & Penard* Aves 68
Cockerelliella *Meunier* Ins. 265
Coelocrossa *Turner* Ins. 188
Coelopencyrtus *Timberlake* Ins. 168
Coenoptychia *Le Cerf* Ins. 177
Coenotalis *Hampson* Ins. 191
Colapteroblatta *Hebard* Ins. 266
Collinella *Chalton & Pérard* Prot. 25
Colobophrys *Horváth* Ins. 238
Columbiana *Muir* Ins. 252
Columella *Halkyard* Prot. 19
Compsoptesis *Villeneuve* Ins. 227
Coniesta *Hampson* Ins. 119
Conocrambus *Hampson* Ins. 191
Conogulella *Pilsbry* Moll. 46
Constalis *Hampson* Ins. 191
Coolia *Meunier* Prot. 25
Coprholaspis *Berlese* Arachn. 18
Coptomiopsis *Pouillaude* Ins. 123
Cordylurella *Malloch* Ins. 232
Corymbichneumon *Morley* Ins. 158
Cosmariomyia *Kertész* Ins. 218

Cosmochelys *Andrews* Rept. 11
Costigulella *Pilsbury* Moll. 46
Cothonolaimus *Ditlevsen* Verm. 22
Cotylichthys *Jordan* Pisces 18
Cradia *Bergroth* Ins. 238
Cranaodes *Meyrick* Ins. 197
Crassitaia *Annandale* Moll. 38
Cryptella *Szépligeti* Ins. 158
Cryptohelcostizus *Cushman* Ins. 158
Cryptophagops *Grouvelle* Ins. 169
Cryptophyllum *Carruthers* Coel. 9
Cryptorhynchidius *Pierce* Ins. 135
Ctenerythraeus *Berlese* Arachn. 20
Cuapetes *Clark* Crust. 14
Cuba *Dyar* Ins. 192
Cultriculus *Oshima* Pisces 13
Cyanauges *Braun* Ins. 197
Cyanothemis *Ris* Ins. 264
Cyclogomphodon *Broom* Rept. 11
Cyclosandalus *Horváth* Ins. 243
Cycloteuthis *Joubin* Moll. 60
Cycreon *d'Orchymont* Ins. 108
Cydistomyia *Taylor* Ins. 220
Cydnoides *Hart* Ins. 238
Cylistolister *Bickhardt* Ins. 116
Cynoconaspidia *Rohwer* and *Fagan* Ins. 170
Cypholaelaps *Berlese* Arachn. 19
Cyphostethus *d'Orchymont* Ins. 108
Cyphothyrea *Horváth* Ins. 238
Cyrtobasis *Cushman* Ins. 159
Cyrtosomum *Gedoelst* Verm. 22

Dacnochlaenius *Alluaud* Ins. 106
Dactylodeictes *Kertész* Ins. 218
Dactylodiplosis *Rübsaamen* Ins. 204
Dactylostethus *d'Orchymont* Ins. 108
Damaromyia *Kertész* Ins. 218
Dasmophora *Meyrick* Ins. 197
Dasypleuron *Mallock* Ins. 232
Dasysphecia *Hampson* Ins. 181
Decamyia *Dyar* Ins. 213
Decna *Heller* Ins. 145
Decomia *Poppius* Ins. 248
Dendrolagia *Mjöberg* Ins. 261
Depalpata *Rothschild* Ins. 182
Deranchylaeus *Bridwell* Ins. 147
Derocentrus *Cushman* Ins. 159
Dermomycoides *Granata* Prot. 23
Desmidophorinus *Hubenthal* Ins. 136
Dexiorbis *Chamberlin* Verm. 29
Dhanya *Andrewes* Ins. 106
Dialampsis *Kertész* Ins. 218.
Dialeria *Tavares* Ins. 204
Diargemus *Kertész* Ins. 218
Diatomoeca *Jordan & Gilbert* Pisces 11
Dicamixus *Szépligeti* Ins. 159
Dicercomonas *Chalmers* and *Pekkola* Prot. 23
Dicrohelea *Kieffer* Ins. 209
Dictyeucnemis *Lea* Ins. 126
Dictynoides *Chamberlin* Arachn. 15
Dictyoglessula *Pilsbry* Moll. 51
Dictyomia *Tavares* Ins. 204
Dihyboplax *Enderlein* Ins. 159
Dilachnus *Baker* Ins. 257
Dimorphochalcas *Pic* Ins. 128
Dindymellus *Distant* Ins. 241
Dindymenides *Chamberlin* Verm. 29
Dinocrinus *Wanner* Echin. 14
Dinocryptus *Szépligeti* Ins. 159
Dinomyia *Dyar* Ins. 213
Diodaulus *Rübsaamen* Ins. 204
Dioides *Kertész* Ins. 232
Diphalangarpe *Dyar* Ins. 213
Diplocercomonas *Chalmers* and *Pekkola* Prot. 23
Diplolaboncus *Rübsaamen* Ins. 204
Diplopleurus *Bernhauer* Ins. 111
Diplotalis *Hampson* Ins. 192
Diplotrichiella *Poppius* Ins. 248
Dipristocera *Kieffer* Ins. 166
Diptilomiopus *Nalepa* Arachn. 22
Disticta *Wasmann* Ins. 111
Distirogaster *Horváth* Ins. 243
Ditrichomonas *Cutler* Prot. 23
Dochmioglene *Enderlein* Ins. 172
Dodecamyia *Dyar* Ins. 213
Dokada *Schouteden* Ins. 238
Dolichocatops *Portevin* Ins. 115
Dolichocis *Dury* Ins. 131
Dolichodema *Kertész* Ins. 218
Dolicholabis *Tavares* Ins. 204
Dolichorhachis *Mann* Ins. 154
Dolophrosyne *Durrant* Ins. 197
Dorylaimopsis *Ditlevsen* Verm. 22
Dotillopsis *Kemp* Crust. 12
Drescomopsis *Dyar* Ins. 192
Dromiosalpingus *Pic* Ins. 134
Dromopompilus *Heymons* Ins. 151
Drosimomgia *Kertész* Ins. 218 1916.
Dyscolocrabro *Kohl* Ins. 151
Dysmorodrepanis *Perkins* Aves 66
Dysnoetus *Bergroth* Ins. 238

Echidgnathia *Hampson* Ins. 181
Echidnophora *Schmitz* Ins. 224
Ecitophora *Schmitz* Ins. 224
Eclipes *Jordan* and *Gilbert* Pisces 15
Ectasis *Jordan* and *Gilbert* Pisces 11
Edoclina *Jeannel* Ins. 243
Eicolyctus *Sahlberg* Ins. 131
Eidalimus *Kertész* Ins. 218
Eifelocrinus *Wanner* Echin. 15
Elatotrypes *Fisher* Ins. 140
Ellimichthys *Jordan & Gilbert* Pisces 12
Embryocrinus *Wanner* Echin. 15
Emmachaere *Jordan & Gilbert* Pisces 11
Emmalochaeta *Becker* Ins. 233
Encryphodes *Turner* Ins. 188

Endotrichodes *Hampson* Ins. 192
Endotylus *Horváth* Ins. 238
Enhypnon *Carter* Ins. 131
Ennelichthys *Jordan* Pisces 12
Entagaricus *Pilsbry* Moll. 46
Entmemacornis *Dyar* Ins. 192
Enypnium *Kertész* Ins. 218
Eocarcelia *Townsend* Ins. 227
Eolygus *Poppius* Ins. 248
Eolymnium *Prashad* Moll. 55
Eomyelodactylus *Foerste* Echin. 15
Eoplatanista *Piaz* Mam. 26
Eosocrpius *Jordan & Gilbert* Pisces 17
Eosthenarus *Poppius* Ins. 248
Eoxenos *Peyerimhoff* Ins. 145
Epaenasomyia *Girault* Ins. 168
Eperlanio *Jordan* Pisces 12
Ephedroxena *Meyrick* Ins. 197
Ephesiella *Chamberlin* Verm. 29
Epicampyla *Turner* Ins. 188
Epieropsis *Normand* Ins. 116
Eponisia *Matsumura* Ins. 252
Epotiocerus *Matsumura* Ins. 252
Equestrimessor *Santschi* Ins. 154
Ereminella *Pallary* Moll. 48
Eremococcus *Ferris* Ins. 259
Errex *Jordan* Pisces 17
Erythrinolepis *Cockerell* Pisces 11
Erythrocles *Jordan* Pisces 15
Eublaberus *Hebard* Ins. 266
Eubonnea *Dyar* Ins. 213
Euclarkia *Lea* Ins. 118
Eucylliba *Berlese* Arachn. 19
Eudromiella *Hebard* Ins. 266
Eugynolaelaps *Berlese* Arachn. 19
Eulepethus *Chamberlin* Verm. 29
Eulepidorhamphus *Fowler* Pisces 14
Eunemadus *Portevin* Ins. 115
Eupareophora *Enslin* Ins. 172
Euphilydor *Cory* Aves 59
Euphormia *Townsend* Ins. 227
Eupistella *Chamberlin* Verm. 29
Euratella *Chamberlin* Verm. 29
Euroleon *Navás* Ins. 201
Eurylister *Bickhardt* Ins. 116
Euryscytus *Horváth* Ins. 238
Euryspeonomus *Jeannel* Ins. 115
Eurystylomorpha *Poppius* Ins. 248
Euscione *Chamberlin* Verm. 29
Eusiptornoides *Cory* Aves 59
Eusystellus *Kleine* Ins. 140
Eutelecrinus *Wanner* Echin. 15
Eutorocca *Townsend* Ins. 227
Eutritochaeta *Townsend* Ins. 227
Evarnella *Chamberlin* Verm. 29
Evholocelaena *Berlese* Arachn. 19
Exeuthyplocia *Lestage* Ins. 263
Exhyalanthrax *Becker* Ins. 221
Exodesis *Hampson* Ins. 193
Exoncotis *Meyrick* Ins. 197
Extrarius *Jordan* Pisces 13
Falculopsis *Dognin* Ins. 188
Falsolanthanus *Pic* Ins. 134
Feinerus *Navás* Ins. 201
Fillus *Navás* Ins. 201
Forfex *Jordan & Gilbert* Pisces 14
Formosiana *Oshima* Pisces 13
Fornicocassis *Spaeth* Ins. 143
Frontipodopsis *Walter* Arachn. 21
Froriepia *Vitzthum* Arachn. 22
Fulakora *Mann* Ins. 154

Ganolytes *Jordan* Pisces 11
Gassneria *Obenberger* Ins. 125
Geholaspis *Berlese* Arachn. 19
Geocnethus *Horvath* Ins. 238
Geoporophilus *Silvestri* Myr., Arachn. 25
Geotrechus *Jeannel* Ins. 106
Geoxus *Thomas* Mam. 23
Gephyraulus *Rübsaamen* Ins. 204
Gephyromantis *Methuen* Rept. 11
Gilsonia *Gedoelst* Verm. 23
Giraudiella *Rübsaamen* Ins. 204
Gisonobasis *Rübsaamen* Ins. 204
Gitodinychus *Berlese* Arachn. 19
Glochinomyia *Kertész* Ins. 218
Glossecia *Hampson* Ins. 181
Glossophecia *Hampson* Ins. 181
Glottaspis *Bergroth* Ins. 238
Gnathylaeus *Bridwell* Ins. 147
Gnesiomyia *Kertész* Ins. 218
Gnorismomyia *Kertész* Ins. 218
Godmania *Horváth* Ins. 238
Gracilisentis *Van Cleave* Verm. 25
Graptostele *Pilsbry* Moll. 46
Gravierella *Fauvel* Verm. 29
Gripekovenia *Kieffer* Ins. 209
Grypopalpia *Hampson* Ins. 181
Gwasitoa *Chamberlin* Verm. 30
Gymnarion *Pilsbry* Moll. 46
Gymnobothroides *Karny* Ins. 270
Gymnocarcelia *Townsend* Ins. 227

Hadrocranella *Horváth* Ins. 243
Halecodon *Cockerell* Pisces 11
Halkyardia *Heron-Allen* and *Earland* Prot. 20
Halocoryza *Alluaud* Ins. 106
Haloporcellis *Verhoeff* Crust. 15
Hamitopsenius *Waemann* Ins. 111
Hammatopsis *Hadding* Verm. 30
Hapalothyma *Meyrick* Ins. 197
Haplocookia *Brolemann* Myr., Arachn. 25
Haplohelix *Pilsbry* Moll. 48
Haplomus *Szépligeti* Ins. 159
Haplonepion *Pilsbry* Moll. 46
Haplopalpus *Rübsaamen* Ins. 204
Haplornis *Wetmore* Aves 61
Harmopsides *Chamberlin* Verm. 30
Harmotona *Meyrick* Ins. 198

Hayia *Jordan* and *Gilbert* Pisces 11
Heidemanniella *Poppius* Ins. 248
Helicomyia *Rübsaamen* Ins. 204
Heliconiamyia *Dyar* Ins. 213
Helmintholepis *Cockerell* Pisces 11
Hemithyreopus *Kohl* Ins. 151
Hesperodinera *Townsend* Ins. 228
Hesperonoe *Chamberlin* Verm. 30
Heterithone *Tillyard* Ins. 201
Heteroblysmia *Kleine* Ins. 140
Heterocranus *Bourgoin* Ins. 123
Heterogamoides *Fullaway* Ins. 164
Heterolasma *Ehlers* Coel. 15
Heteroneura *Crawford* Ins. 256
Heteroneura *Davis* Ins. 257
Heteroschema *Gahan* Ins. 169
Hexacantherophora *Schmitz* Ins. 224
Hippaliosina *Canu* Bry., Brach. 11
Hippocystis *Bather* Echin. 16
Histioclinus *Metzelaar* Pisces 17
Holcoides *Hebard* Ins. 268
Holoconopa *Kieffer* Ins. 209
Holopteridius *Bruch* Ins. 140
Holothylax *Cabrera* Mam. 27
Homoeocamaria *Blair* Ins. 132
Homohelea *Kieffer* Ins. 209
Homotrixa *Villeneuve* Ins. 226
Hoplocampoides *Enslin* Ins. 172
Hoplomargasus *Horváth* Ins. 244
Hoplonopsis *Szépligeti* Ins. 160
Hoplophorina *Szépligeti* Ins. 160
Hormosomyia *Felt* Ins. 204
Hubbesia *Jordan* Pisces 16
Hubenthalia *Bickhardt* Ins. 117
Hybolasioptera *Rübsaamen* Ins. 204
Hylastinoides *Spessivitzev* Ins. 139
Hylocryptus *Chapman* Aves 59
Hymetta *McAtee* Ins. 256
Hyoliris *Williams* Ins. 151
Hypanthedon *Hampson* Ins. 181
Hypenomyia *Townsend* Ins. 228
Hypiesta *Hampson* Ins. 193
Hypodrassodes *de Dalmas* Arachn. 15
Hypolagocaulus *Hustache* Ins. 136
Hypomelittia *Hampson* Ins. 181
Hypomiolispa *Kleine* Ins. 140
Hypophassus *Le Cerf* Ins. 183
Hyporhicnoda *Hebard* Ins. 267
Hystatomyia *Dyar* Ins. 213
Hysteroneura *Davis* Ins. 257

Iatrophobia *Rübsaamen* Ins. 204
Idiella *Stechow* Coel. 10
Idiothele *Hewitt* Arachn. 14
Ilyphagus *Chamberlin* Verm. 30
Incamyiopsis *Townsend* Ins. 228
Indocrinus *Wanner* Echin. 15
Iodamoeba *Dobell* Prot. 19
Iquius *Jordan* Pisces 12
Irenicodes *Meyrick* Ins. 198
Irenomys *Thomas* Mam. 23
Irillion *Jordan* Pisces 12
Ischiocassis *Spaeth* Ins. 143
Ischnoglessula *Pilsbry* Moll. 51
Ischnonyx *Rübsaamen* Ins. 204
Isophyllostreptus *Brolemann* Myr., Arachn. 25
Itotomarus *Reitter* Ins. 119

Jaapiella *Rübsaamen* Ins. 204
Jenningsia *Schaeffer* Prot. 24
Jugoda *Melichar* Ins. 253
Julianella *Grandi* Ins. 169

Kaionereis *Chamberlin* Verm. 30
Kaltenbachiella *Rübsaamen* Ins. 204
Kapiriella *Schouteden* Ins. 242
Kareya *Andrewes* Ins. 106
Kebuita *Chamberlin* Verm. 30
Kesun *Chamberlin* Verm. 30
Koratia *Godwin-Austen* Moll. 47
Korinchia *Edwards* Ins. 225
Kurdia *Uvarov* Ins. 269

Laberius *Kieffer* Ins. 166
Laminitarsus *Fullaway* Ins. 164
Lampoquia *Jordan* and *Gilbert* Pisces 15
Lamproblatta *Hebard* Ins. 267
Langurioscython *Heller* Ins. 126
Lanugodacne *Heller* Ins. 145
Laomenes *Clark* Crust. 14
Laonomedes *Chamberlin* Verm. 30
Lapithasa *Melichar* Ins. 253
Lathromyza *Rübsaamen* Ins. 205
Leiodinychus *Berlese* Arachn. 19
Lembella *Schouteden* Ins. 242
Lemmamyia *Dyar* Ins. 213
Lenomyia *Kertész* Ins. 218
Lepadiocrinus *Wanner* Echin. 15
Lepidohelea *Kieffer* Ins. 209
Leptaenoidea *Hedström* Brach. 6
Leptochersa *Meyrick* Ins. 198
Leptodexia *Townsend* Ins. 228
Leptoecia *Chamberlin* Verm. 30
Leptolaelaps *Berlese* Arachn. 19
Leptomacquartia *Townsend* Ins. 228
Leptynoptera *Crawford* Ins. 256
Leucempria *Enslin* Ins. 172
Leucicthyops *Cockerell* Pisces 11
Leurops *Marshall* Ins. 136
Libethroidea *Hebard* Ins. 268
Ligyromyia *Kertész* Ins. 218
Liljevallia *Hedström* Brach. 6
Limnophilella *Alexander* Ins. 216
Limphysothrips *Bagnall* Ins. 261
Liocapsidea *Poppius* Ins. 248
Liocapsus *Poppius* Ins. 248
Liopora *Girty* Bry., Brach. 11
Liostethomimus *Karny* Ins. 269
Liotheronia *Enderlein* Ins. 160

Lissóblatta *Hebard* Ins. 267
Lithobiocerus *Bridwell* Ins. 166
Litopeltis *Hebard* Ins. 267
Litosermyle *Hebard* Ins. 268
Littorinalacuna *Cossmann* Moll. 36
Loberolus *Grouvelle* Ins. 119
Locustipes *Heller* Ins. 141
Lokia *Ris* Ins. 265
Lomasa *Andrewes* Ins. 106
Lophar *Jordan* and *Gilbert* Pisces 15
Lophoceps *Hampson* Ins. 181
Lophometopum *Hebard* Ins. 267
Loxocrinus *Wanner* Echin. 15
Lusingania *Laboissière* Ins. 143
Lusingattalus *Pic* Ins. 129
Lydellothelaira *Townsend* Ins. 228
Lygisma *Jordan* & *Gilbert* Pisces 12

Macateeia *Malloch* Ins. 228
Machaeriobia *Rübsaamen* Ins. 205
Machairomasicera *Townsend* Ins. 228
Macroastylus *Pic* Ins. 129
Macrocepicoccus *Morrison* Ins. 259
Macrodinychus *Berlese* Arachn. 19
Macrometopius *Horváth* Ins. 256
Macropophila *Mjöberg* Ins. 261
Macroporpa *Rübsaamen* Ins. 205
Macroscelesia *Hampson* Ins. 181
Macrostolops *Grouvelle* Ins. 118
Maechidinus *Lea* Ins. 121
Maesia *Schouteden* Ins. 239
Magilopsis *Sowerby* Moll. 32
Magwenga *Morley* Ins. 160
Mahania *Poppius* Ins. 249
Mahatsinia *Spaeth* Ins. 144
Malthoichthyurus *Pic* Ins. 129
Mandingoa *Hartert* Aves 69
Mandragora *Schumacher* Ins. 249
Mangodiplosis *Tavares* Ins. 205
Manotes *Kertész* Ins. 218
Margrethia *Jespersen* & *Täning* Pisces 12
Mascarena *Arrow* Ins. 121
Masia *Mercet* Ins. 169
Mastigamoeba *Fantham* Prot. 19
Mastigethus *Chamberlin* Verm. 31
Mastigophallus *Hesse* Moll. 48
Matucania *Townsend* Ins. 228
Mauita *Chamberlin* Verm. 31
Mauricia *Harris* Moll. 54
Maynea *Schouteden* Ins. 242
Medusochloris *Pascher* Prot. 24
Megacheuma *Mickel* Ins. 141
Megacryptus *Szépligeti* Ins. 160
Megaeuloewia *Townsend* Ins. 228
Megapsychops *Tillyard* Ins. 202
Megarthropsis *Cameron* Ins. 112
Megaulus *Rübsaamen* Ins. 205
Meigenielloides *Townsend* Ins. 228
Melanorhinus *Metzelaar* Pisces 16
Melanoclerus *Chapin* Ins. 130
Melinomyia *Kertész* Ins. 234
Melittiphis *Berlese* Arachn. 19
Melyrastylus *Pic* Ins. 129
Merrimina *Jordan* & *Gilbert* Pisces 17
Mesafricarion *Pilsbry* Moll. 47
Mesepora *Matsumura* Ins. 253
Mesocryptus *Szépligeti* Ins. 160
Mesomyzostoma *Remscheid* Verm. 34
Mesopimpla *Cockerell* Ins. 161
Mesopirene *Girault* Ins. 169
Mesotiocerus *Matsumura* Ins. 253
Metagynella *Berlese* Arachn. 19
Metallicomintho *Townsend* Ins. 228
Metanalges *Trouessart* Arachn. 21
Metapedias *Enderlein* Ins. 172
Metasphondylia *Tavares* Ins. 205
Metatachina *Townsend* Ins. 228
Metatheora *Meyrick* Ins. 198
Methneria *Bernhauer* Ins. 112
Metrocoropsis *Paiva* Ins. 246
Metylaeus *Bridwell* Ins. 148
Miamyia *Dyar* Ins. 213
Micraonyx *Allen* Mam. 21
Micrecia *Hampson* Ins. 181
Micrereunetes *Berlese* Arachn. 20
Microaporia *Townsend* Ins. 228
Microastylus *Pic* Ins. 129
Microchaetona *Townsend* Ins. 228
Microcochlearius *Chubb* Aves 59
Microchorus *Szépligeti* Ins. 161
Microcilibe *Carter* Ins. 132
Microcistela *Pic* Ins. 133
Microcompsus *Horváth* Ins. 239
Microdrassus *de Dalmas* Arachn. 15
Microhelea *Kieffer* Ins. 209
Microichthyurus *Pic* Ins. 129
Micromalthinus *Pic* Ins. 129
Micromintho *Townsend* Ins. 228
Microstenus *Szépligeti* Ins. 161
Microtes *Becker* Ins. 223
Micruloma *Carter* Ins. 132
Mikiella *Rübsaamen* Ins. 205
Mimaulodes *Marshall* Ins. 136
Mimochalcas *Pic* Ins. 129
Mimocleptris *Horváth* Ins. 244
Mimocyptus *Cameron* Ins. 112
Mimulapis *Bridwell* Ins. 148
Minthohoughia *Townsend* Ins. 229
Minthomyia *Townsend* Ins. 229
Minthozelia *Townsend* Ins. 229
Minuania *Cabrera* Mam. 27
Mixohelea *Kieffer* Ins. 209
Mnionophilus *Carter* Ins. 132
Mogamis *Chamberlin* Verm. 31
Mollocrinus *Wanner* Echin. 15
Monardia *Enslin* Ins. 172
Monobrachiocrinus *Wanner* Echin. 15
Moroderia *Reitter* Ins. 136
Morphochalcas *Pic* Ins. 129
Muiriella *Fullaway* Ins. 165

Muscidideicus *Becker* Ins. 223
Mydaeina *Malloch* Ins. 229
Myothyriopsis *Townsend* Ins. 229
Myrmecoptinus *Wasmann* Ins. 130
Myrmidonella *Berland* Arachn. 16
Mysorella *Godwin-Austen* Moll. 37
Mysoria *Godwin-Austen* Moll. 37
Mythecops *Reitter* Ins. 136
Mythoplastis *Meyrick* Ins. 198

Nadiva *Navás* Ins. 202
Naizema *Navás* Ins. 202
Namanereis *Chamberlin* Verm. 31
Nannaria *Chamberlin* Myr., Arachn. 25
Nannophyllia *Bergroth* Ins. 240
Nans *Chamberlin.* Verm. 31
Nautopaedium *Jordan* Pisces 18
Navasia *Tavares* Ins. 205
Neerupa *Hampson* Ins. 193
Nematevansia *Ihle* Verm. 23
Nematodinus *Lea* Ins. 126
Neoacanthina *Kertész* Ins. 218
Neobanepa *Hampson* Ins. 193
Neocatonyx *Walter* Arachn. 21
Neochrysops *Walton* Ins. 220
Neocosmiella *Hebard* Ins. 266
Neocryptus *Szépligeti* Ins. 161
Neodiapria *Kieffer* Ins. 166
Neoerigone *Townsend* Ins. 229
Neoglottis *Ridgway* Aves 49
Neohedobia *Fisher* Ins. 130
Neohirmoneura *Bequaert* Ins. 222
Neoklugia *Distant* Ins. 244
Neoleria *Malloch* Ins. 234
Neolygus *Knight* Ins. 249
Neomeristis *Meyrich* Ins. 198
Neomongoma *Alexander* Ins. 216
Neomuscina *Townsend* Ins. 229
Neopedicinus *Fahrenholz* Ins. 260
Neoptolemus *Horváth* Ins. 239
Neoscotia *Townsend* Ins. 229
Neothodelmus *Distant* Ins. 244
Neotinthia *Hampson* Ins. 181
Neotticoris *Horváth* Ins. 246
Neowinthemia *Townsend* Ins. 229
Neoxylonomus *Szépligeti* Ins. 161
Neozirta *Distant* Ins. 244
Nesaulax *Jacobi* Ins. 255
Nesencyrtus *Timberlake* Ins. 169
Neshylaeus *Bridwell* Ins. 148
Nesomyndus *Jacobi* Ins. 253
Netrocerina *Enderlein* Ins. 172
Neurocentropus *Navás* Ins. 200
Neuropsyche *Tillyard* Ins. 200
Nicollella *Chatton* and *Pérard* Prot. 25
Nohoveus *Navás* Ins. 202
Nomiapis *Cockerell* Ins. 149
Noteropagus *d'Orchymont* Ins. 109
Nothrolaspis *Berlese* Arachn. 20
Nothylaeus *Bridwell* Ins. 149

Notiothemis *Ris* Ins. 265
Numidica *Barreto* Verm. 23
Nymphulodes *Hampson* Ins. 193

Ochromeigenia *Townsend* Ins. 229
Ochtherocapsus *Poppius* Ins. 249
Ocrioessa *Bergroth* Ins. 244
Octagomphus *Broom* Rept. 11
Octospinifer *Van Cleave* Verm. 25
Odontocryptus *Szépligeti* Ins. 161
Odontoxenia *Schmitz* Ins. 224
Oestroplagia *Townsend* Ins. 229
Okanagodes *Davis* Ins. 252
Okatropis *Matsumura* Ins. 253
Ollachea *Townsend* Ins. 229
Omania *Horváth* Ins. 251
Omicrogiton *d'Orchymont* Ins. 109
Oncia *Annandale* Moll. 51
Oncilla *Allen* Mam. 20
Oncogenys *Champion* Ins. 112
Oncosalpingus *Blair* Ins. 134
Oodinychus *Berlese* Arachn. 20
Opelousia *Townsend* Ins. 229
Ophinella *Stechow* Coel. 10
Ophiodissa *Stechow* Coel. 10
Ophryomedon *Wasmann* Ins. 112
Ophthalmothrips *Hood* Ins. 262
Opophylax *Bergroth* Ins. 239
Opsidiopsis *Townsend* Ins. 229
Opsodoca *Meyrick* Ins. 198
Opsoleskia *Townsend* Ins. 229
Opsomeigenia *Townsend* Ins. 229
Opsotheresia *Townsend* Ins. 229
Opsozelia *Townsend* Ins. 229
Orchesiolobopoda *Pic* Ins. 133
Orchymontia *Broun* Ins. 109
Oreohomorus *Pilsbry* Moll. 50
Oriades *Chamberlin* Verm. 31
Orqueta *Jordan* Pisces 15
Orthogibbus *Germain* Moll. 46
Osbornictis *Allen* Mam. 20
Oshimia *Jordan* Pisces 16
Osteoblepharon *Schmidt* Rept. 10
Otochares *Meyrick* Ins. 198
Ototriton *Loomis* Rept. 12
Oxycalypta *Karny* Ins. 269
Oxymandias *Jordan & Gilbert* Pisces 11
Oxymyia *Kertész* Ins. 219
Oxypodera *Bernhauer* Ins. 112
Ozophagus *Eggers* Ins. 139

Pabits *Chamberlin* Verm. 31
Pachecoa *Harris* Moll. 55
Pachorhopala *Bernhauer* Ins. 112
Pachynocera *Townsend* Ins. 230
Pachysoma *Szépligeti* Ins. 161
Pachythrissops *Woodward* Pisces 12
Paeon *Wilson* Crust. 16
Paiwa *Chamberlin* Verm. 31
Palaeoholopus *Wanner* Echin. 15

Palaeosoma *Jackson* & *Brade-Birks* Arachn. 26
Palaeoteleia *Cockerell* Ins. 166
Paloniella *Poppius* Ins. 251
Pantellaria *Dall* Brach. 7
Pantilioforma *Schumacher* Ins. 250
Pantoithrix *Chamberlin* Verm. 31
Panurgopsis *Kertész* Ins. 234
Paracatillocrinus *Wanner* Echin. 15
Paracechorismenus *Kertész* Ins. 219
Parachilocoris *Horváth* Ins. 239
Paracorethrusa *Melichar* Ins. 253
Paracraspedothrix *Villeneuve* Ins. 230
Paracryptus *Szépligeti* Ins. 162 1916
Paradoxecia *Hampson* Ins. 181
Paradoxonycteris *Revilliod* Mam. 18
Paralibavius *Paiva* Ins. 244
Parameigenia *Townsend* Ins. 230
Parameristis *Meyrick* Ins. 198
Paramystaria *de Lessert* Arachn. 17
Parancyla *Hampson* Ins. 194
Paranisia *Matsumura* Ins. 253
Parapanthous *Distant* Ins. 244
Paraphacota *Santschi* Ins. 155
Paraphyllophora *Revilliod* Mam. 18
Paraplynus *Jeannel* Ins. 244
Paraprososthenia *Annandale* Moll. 37
Paraptychoptera *Tonnoir* Ins. 216
Parapyrgula *Annandale* & *Prashad* Moll. 37
Parathelaira *Townsend* Ins. 230
Parathrombiam *Berlese* Arachn. 20
Parathyreopus *Kohl* Ins. 151
Paratopula *Wheeler* Ins. 155
Paratraea *Hampson* Ins. 194
Paratyndaris *Fisher* Ins. 125
Parawinnertsia *Felt* Ins. 205
Paraxenistis *Meyrick* Ins. 198
Parazelia *Townsend* Ins. 230
Parepimelitta *Bruch* Ins. 141
Parerupa *Hampson* Ins. 194
Parholaspis *Berlese* Arachn. 20
Parinodiceras *Trueman* Moll. 61
Parisobrachium *Kieffer* Ins. 167
Patissodes *Hampson* Ins. 194
Paumotella *Chamberlin* Verm. 32
Pauridia *Timberlake* Ins. 169
Paurosphondylus *Rübsaamen* Ins. 205
Pegadomyia *Kertész* Ins. 219
Pelthydrus *d'Orchymont* Ins. 109
Peltidolygus *Poppius* Ins. 250
Peltocymba *Reitter* Ins. 118
Pemphigocecis *Rübsaamen* Ins. 205
Pentemyia *Dyar* Ins. 213
Perata *Swinhoe* Ins. 186
Pergandea *Aldrich* Ins. 230
Pergula *Morice* Ins. 173
Pericrepis *Horváth* Ins. 239
Peridelias *Turner* Ins. 189
Periodon *Hadding* Verm. 32
Periplexis *Wilson* Crust. 17
Periploca *Braun* Ins. 199
Peripterocrinus *Wanner* Echin. 15
Perisierola *Kieffer* Ins. 167
Perissothrips *Hood* Ins. 262
Perostylus *Benick* Ins. 113
Petrosarcophaga *Townsend* Ins. 230
Phacogalia *Mjöberg* Ins. 261
Phasiophyto *Townsend* Ins. 230
Philodoxus *Horváth* Ins. 245
Phobeticomyia *Kertész* Ins. 235
Pholidoceras *Mercet* Ins. 169
Phorbasia *Kieffer* Ins. 167
Phosciscus *Oshima* Pisces 13
Phrynofrontina *Townsend* Ins. 230
Phrynolydella *Townsend* Ins. 230
Phyja *Distant* Ins. 245
Phyllophyrama *Karny* Ins. 269
Phyllopidea *Knight* Ins. 250
Phyrnovelia *Horváth* Ins. 246
Phytocoropsis *Poppius* Ins. 250
Picenia *Mancini* Moll. 61
Picromorpha *Turner* Ins. 189
Pieltania *Arias* Ins. 222
Pilophoropsis *Poppius* Ins. 250
Pimelorrhinus *Reitter* Ins. 137
Pithomyia *Kertész* Ins. 219
Placochela *Rübsaamen* Ins. 205
Placodister *Bickhardt* Ins. 117
Planimyrma *Viehmeyer* Ins. 155
Plater *Navás* Ins. 202
Platybelone *Fowler* Pisces 14
Platycorax *Oberholser* Aves 54
Platylestes *Hebard* Ins. 267
Platylissodema *Pic* Ins. 134
Platynomyia *Kertész* Ins. 219
Platysalpingus *Blair* Ins. 134
Platytesis *Hampson* Ins. 194
Plectoderoides *Matsumura* Ins. 253
Pleiarthrocerus *Bruch* Ins. 141
Plesialges *Trouessart* Arachn. 21
Plesiooestrus *Villeneuve* Ins. 226
Pleurophopsis *Van Winkle* Moll. 56
Pliciguella *Pilsbry* Moll. 46
Plotobia *Chamberlin* Verm. 32
Plotohelmis *Chamberlin* Verm. 32
Plotolepsis *Chamberlin* Verm. 32
Plynaspis *Jeannel* Ins. 245
Pnictes *Jordan* Pisces 17
Podarmus *Chamberlin* Verm. 32
Poecilocera *Schaeffer* Ins. 144
Pogonomyioides *Malloch* Ins. 230
Poliolaema *Chubb* Aves 58
Polyenaulus *Etheridge* Moll. 44
Pomphus *Marshall* Ins. 137
Poppiusiella *Frey* Ins. 221
Poroblatta *Hebard* Ins. 267
Porphyrocapsus *Poppius* Ins. 250
Poteriostomum *Quiel* Verm. 24
Prakasha *Andrewes* Ins. 107

Praomyia *Kertész* Ins. 219
Prholaspina *Berlese* Arachn. 20
Primigulella *Pilsbry* Moll. 46
Prionotalis *Hampson* Ins. 194
Proantocha *Alexander* Ins. 216
Procandiope *Dyar* Ins. 194
Prodida *de Dalmas* Arachn. 15
Proegmenomyia *Kertész* Ins. 219
Prolamlonyx *Silvestri* Myr., Arachn. 25
Prolanthia *Rübsaamen* Ins. 205
Properidinium *Meunier* Prot. 25
Prophyllocrinus *Wanner* Echin. 16
Propsilomma *Kieffer* Ins. 167
Proroglutea *Townsend* Ins. 230
Proscopus *Marshall* Ins. 137
Prosopoxys *Jacobi* Ins. 256
Prosotera *Turner* Ins. 189
Prosplocamis *Meyrick* Ins. 199
Prostomomyia *Kertész* Ins. 219
Protiaropsis *Stechow* Coel. 11
Protostrophus *Marshall* Ins. 137
Prototapirella *Cunha* Prot. 26
Psalitrus *d'Orchymont* Ins. 109
Psephocrita *Meyrick* Ins. 199
Pseudamycterus *Pierce* Ins. 137
Pseuderimerus *Gahan* Ins. 170
Pseudeurystylus *Poppius* Ins. 250
Pseudoastylus *Pic* Ins. 129
Pseudoatta *Gallardo* Ins. 155
Pseudobonellia *Johnston & Tiegs* Verm 35
Pseudoblosyrus *Marshall* Ins. 137
Pseudocardita *Oppenheim* Moll. 56
Pseudocerocoma *Pic* Ins. 129
Pseudochaetona *Townsend* Ins. 230
Pseudocorethrura *Melichar* Ins. 253
Pseudocrypturgus *Eggers* Ins. 139
Pseudocyphomyia *Kertész* Ins. 219
Pseudodasytes *Pic* Ins. 129
Pseudoevaza *Kertész* Ins. 219
Pseudogenusa *Rebel* Ins. 189
Pseudohylesinus *Eggers* Ins. 139
Pseudolina *Schaeffer* Ins. 144
Pseudomansa *Szépligeti* Ins. 162
Pseudomesitius *Duchaussoy* Ins. 167
Pseudonemadus *Portevin* Ins. 115
Pseudonomeritis *Szépligeti* Ins. 162
Pseudoperinthus *Wasmann* Ins. 113
Pseudophocylides *Kleine* Ins. 140
Pseudoproictes *Hustache* Ins. 137
Pseudorhicnoessa *Malloch* Ins. 235
Pseudosiptornis *Cory* Aves 58
Pseudotocinclus *Nichols* Pisces 14
Psoroptoides *Trouessart* Arachn. 21
Psychopsella *Tillyard* Ins. 202
Psyllites *Cockerell* Ins. 257
Pterinopteria *Townsend* Ins. 230
Pterocryptus *Szépligeti* Ins. 162
Pterothrix *Chamberlin* Verm. 32
Pterygiocottus *Bean & Weed* Pisces 17
Ptilocrinus *Wanner* Echin. 16
Ptomaphaginus *Portevin* Ins. 115
Ptychoon *Pilsbry* Moll. 46
Pullneya *Horváth* Ins. 239
Punamyocera *Townsend* Ins. 230
Pupigulella *Pilsbry* Moll. 46
Putonisca *Horváth* Ins. 239
Pycnosceloides *Hebard* Ins. 267
Pycnotheca *Stechow* Coel. 11
Pyelomyia *Kertész* Ins. 219
Pyranthrene *Hampson* Ins. 181

Quaesita *Jordan & Gilbert* Pisces 1
Quaylea *Timberlake* Ins. 170
Quedara *Swinhoe* Ins. 179

Raetomya *Newton* Moll. 58
Ragytes *Portevin* Ins. 115
Raiamas *Jordan* Pisces 13
Rampylla *Dyar* Ins. 194
Raxa *Distant* Ins. 241
Rectirhynchia *Buckman* Brach. 7
Rhabdoplexaura *Kükenthal* Coel. 14
Rhachiocrema *Mann* Ins. 155
Rhegmoza *Enderlein* Ins. 257
Rheocles *Jordan* Pisces 16
Rhinocylapidius *Poppius* Ins. 250
Rhinoencyrtus *Mercet* Ins. 170
Rhizotrichia *Stechow* Coel. 11
Rhodischnura *Laidlaw* Ins. 265
Rhodolygus *Poppius* Ins. 250
Rhomarchus *Jordan & Gilbert* Pisces 17
Rhomurus *Jordan* Pisces 11
Rhopalospiria *Enderlein* Ins. 173
Riethia *Kieffer* Ins. 210
Ritaemyia *Frey* Ins. 235
Ritteria *Metcalf* Prochord. 3
Rivularioides *Annandale* Moll. 38
Robertsonomyia *Malloch* Ins. 226
Roemerocrinus *Wanner* Echin. 16
Rogenites *Jordan* Pisces 11
Rondaniella *Rübsaamen* Ins. 205
Rusguniella *Seurat* Verm. 24
Ruwenzoria *Laboissière* Ins. 144

Sacculina *Bale* Coel. 11
Saldubella *Kertész* Ins. 219
Salsolomyia *Tavares* Ins. 206
Samaroblatta *Tillyard* Ins. 267
Samonycteris *Revilliod* Mam. 19
Sandomingia *Rathbun* Crust. 13
Saphobranchia *Chamberlin* 33
Sathroptera *Kertész* Ins. 219
Saurocoris *McAtee* Ins. 242
Saussurobolus *Carl* Myr., Arachn. 26
Scaphestes *Oshima* Pisces 13
Scaphodacne *Heller* Ins. 145
Schedioides *Mercet* Ins. 170
Schismatodiplosis *Rübsaamen* Ins. 206
Schistostephana *Townsend* Ins. 231

Schizoconops *Kieffer* Ins. 210
Schoenerupa *Hampson* Ins. 195
Sciomystis *Meyrick* Ins. 199
Scionides *Chamberlin* Verm. 33
Scleropasta *Meyrick* Ins. 199
Scoliopsis *d'Orchymont* Ins. 109
Scolopocranum *Horváth* Ins. 240
Scoloponotus *Horváth* Ins. 245
Sebastavus *Jordan & Gilbert* Pisces 11
Seidlitzellus *Reitter* Ins. 132
Semimanatha *Janse* Ins. 184
Semiodera *Chamberlin* Verm. 33
Sepidoscinis *Hendel* Ins. 235
Septanychus *McGregor* Arachn. 20
Seres *Waterston* Ins. 170
Setarella *Reitter* Ins. 120
Setodellina *Lestage* Ins. 200
Seuratia *Ditlevsen* Verm. 24
Sfitakantha *Andrewes* Ins. 107
Sheldonella *Maury* Moll. 55
Shirakia *Matsumura* Ins. 254
Shizuka *Matsumura* Ins. 254
Silvigulella *Pilsbry* Moll. 46
Sinaia *Becker* Ins. 222
Sinitrella *Chamberlin* Verm. 33
Siopa *Jacobi* Ins. 254
Siphonomyiella *Frey* Ins. 236
Siptornoides *Cory* Aves 59
Siptornopsis *Cory* Aves 58
Smithites *Jordan & Gilbert* Pisces 12
Sogana *Matsumura* Ins. 254
Sonatsa *Chamberlin* Verm. 33
Soosia *Hesse* Moll. 49
Spaniomyia *Kertész* Ins. 219
Speocharidius *Jeannel* Ins. 116
Sphaerionotus *de Meyere* Ins. 216
Sphaerodiplosis *Rübsaamen* Ins. 206
Sphedanovarus *Jeannel* Ins. 245
Sphenomyia *Aldrich* Ins. 231
Spinapalochrus *Pic* Ins. 130
Spinastylus *Pic* Ins. 130
Spinibarbus *Oshima* Pisces 13
Spinolissodema *Pic* Ins. 134
Spirorbella *Chamberlin* Verm. 33
Spirorbides *Chamberlin* Verm. 33
Spongiocyathas *Folkeson* Coel. 16
Squalodelphia *Piaz* Mam. 27
Stachyocrinus *Wanner* Echin. 16
Steganolauxania *Frey* Ins. 236
Stehlinia *Revilliod* Mam. 19
Stenarella *Szépligeti* Ins. 162
Stenocalama *Hampson* Ins. 195
Stenochironomus *Kieffer* Ins. 211
Stenogenomorpha *Pic* Ins. 132
Sten[illegible]
Sterrhaulus *Rübsaamen* Ins. 206
Steveniopsis *Townsend* Ins. 231
Stichotrema *Hofeneder* Ins. 145
Stictochilus *Bergroth* Ins. 240
Stictochironomus *Kieffer* Ins. 211
Stictocricus *Horváth* Ins. 241
Stictomyrmornis *Chubb* Aves 58
Stiphrometasia *Zerny* Ins. 195
Stoma *Hadding* Verm. 33
Stomatolydella *Townsend* Ins. 231
Stratiopisthius *Senna & Calabresi* Ins. 140
Strephomescinia *Dyar* Ins. 195
Stryphnodes *Meyrick* Ins. 199
Sturmiodexia *Townsend* Ins. 231
Stylopodus *Benick* Ins. 114
Stypoza *Enderlein* Ins. 173
Submedeterus *Becker* Ins. 224
Subuliniscus *Pilsbry* Moll. 51
Sundacrinus *Wanner* Echin. 16
Sycophrurus *Picard* Ins. 163
Syletor *Jordan* Pisces 14
Symmiges *Turner* Ins. 190
Synclisis *Navás* Ins. 202
Synechops *Marshall* Ins. 138
Synelmis *Chamberlin* Verm. 33
Syngenodrilus *Smith & Green* Verm. 34
Synoza *Enderlein* Ins. 257
Syntomocrinus *Wanner* Echin. 16
Synzeuxis *Turner* Ins. 190
Syrmologa *Meyrick* Ins. 199
Systylis *Bresslau* Prot. 26

Taivaniella *Poppius* Ins. 250
Tarsistes *Jordan* Pisces 10
Tasmosalpingus *Lea* Ins. 134
Tavistocka *Mathews* Aves 69
Telake *Chamberlin* Verm. 33
Teleozontes *Pilsbry* Moll. 47
Teloconus *Grouvelle* Ins. 118
Telothyriosoma *Townsend* Ins. 231
Tempora *Matsumura* Ins. 254
Tenebriocamaria *Pic* Ins. 132
Tephromyiopsis *Townsend* Ins. 231
Termitobiella *Wasmann* Ins. 114
Termitotima *Wasmann* Ins. 114
Tetradonema *Cobb* Verm. 24
Tetraolytta *Pic* Ins. 134
Teuchothrips *Hood* Ins. 262
Teutberga *Jacobi* Ins. 254
Thalassocrinus *Wanner* Echin. 16
Thania *Poppius* Ins. 251
Thelairochaetona *Townsend* Ins. 231
[illegible]lepella *Chamberlin* Verm. 33
[illegible]erochaeta *Chamberlin* Verm. 33
[illegible]hetidicrinus *Wanner* Echin. 16
[illegible]hinobadistes *Hay* Mam. 27
[illegible]hopleurus *Bernhauer* Ins. 114
[illegible] *Rübsaamen* Ins. 206
[illegible]ertész Ins. 219

Thoracostomopsis *Ditlevsen* Verm. 24
Thorictosoma *Lea* Ins. 133
Thuiella *Stechow* Coel. 12
Thunbergia *Horváth* Ins. 241
Thurberiphaga *Dyar* Ins. 186
Thylacognathus *Kertész* Ins. 219
Thyranthrene *Hampson* Ins. 182
Thysanogyna *Crawford* Ins. 257
Thysanuchus *Bergroth* Ins. 245
Tiarellacerithium *Charpiat* Moll. 35
Timoria *Kaye* Ins. 180
Tinginotopsis *Poppius* Ins. 251
Tingitana *Pallary* Moll. 49
Togocyamus *Oppenheim* Echin. 11
Tolongia *Poppius* Ins. 251
Topomeigenia *Townsend* Ins. 231
Tortigulella *Pilsbry* Moll. 46
Trachymantis *Methuen* Rept. 11
Tradescanticola *Hampson* Ins. 182
Trapezonalis *Szépligeti* Ins. 163
Traustedtia *Metcalf* Prochord. 3
Trematura *Berlese* Arachn. 20
Triamyia *Dyar* Ins. 214
Triassoblatta *Tillyard* Ins. 268
Trichelobrachium *Kieffer* Ins. 167
Trichiomorphus *Bourgoin* Ins. 124
Trichocathaica *Gude* Moll. 49
Tricholaba *Rübsaamen* Ins. 206
Tricholocelaena *Berlese* Arachn. 20
Trichophassus *Le Cerf* Ins. 184
Trichosphaeriestes *Blair* Ins. 134
Trichotopteryx *Townsend* Ins. 231
Tricladia *Mercet* Ins. 170
Tricylusa *Stechow* Coel. 12
Tridemula *Horváth* Ins. 246
Trigonodiplosis *Rübsaamen* Ins. 206
Trigonolaimus *Ditlevsen* Verm. 24
Trimerocrinus *Wanner* Echin. 16
Triodontella *Reitter* Ins. 122
Trischidocera *Villeneuve* Ins. 231
Tritobrachia *Enderlein* Ins. 173
Trochiloglossa *Townsend* Ins. 231
Trogasteropsis *Dodero* Ins. 115
Trogloapalochrus *Pic* Ins. 130
Trogloglanis *Eigenmann* Pisces 14
Trypheromimus *Pic* Ins. 130
Turnebiella *Poppius* Ins. 251
Tympanospinctus *Berlese* Arachn. 20
Typhogenes *Meyrick* Ins. 199

Udeocoris *Bergroth* Ins. 241
Ulmeria *Navás* Ins. 200
Unagius *Jordan* Pisces 17
Uncinereis *Chamberlin* Verm. 33
Uniachnus *Wilson* Ins. 258
Urochaetona *Townsend* Ins. 231
Urocles *Jordan* Pisces 11
Urodexoides *Townsend* Ins. 231
Urosiphon *Chamberlin* Verm. 33

Valentinella *Grandi* Ins. 170
Varicostele *Pilsbry* Moll. 46
Verater *Jordan* Pisces 17
Vertillaria *Pilsbury* Moll. 50
Vetora *Schouteden* Ins. 240
Vibrissovoria *Townsend* Ins. 231
Vicarihelix *Pilsbry* Moll. 49
Vicininodiceras *Trueman* Moll. 61
Vigil *Jordan* Pisces 17
Vinetifer *Jordan* Pisces 11

Wachtliella *Rübsaamen* Ins. 206
Warsanglia *Clarke* Aves 67
Wheeleripone *Mann* Ins. 156
Wilsonia *Baker* Ins. 258
Wombalia *Schouteden* Ins. 242
Wubana *Chamberlin* Arachn. 17

Xanthoactia *Townsend* Ins. 231
Xanthooestrus *Villeneuve* Ins. 226
Xenhybona *Santschi* Ins. 156
Xenicopsoides *Cory* Aves 59
Xenobolus *Carl* Myr., Arachn. 26
Xenogale *Allen* Mam. 20
Xenogobius *Metzelaar* Pisces 16
Xeoprosopa *Townsend* Ins. 231
Xestonotellus *Horváth* Ins. 241
Xestonotidea *Gahan* Ins. 170
Xiphiozona *Berry* Moll. 27
Xironodrilus *Ellis* Verm. 34
Xironogiton *Ellis* Verm. 34
Xyne *Jordan & Gilbert* Pisces 12
Xyrinius *Jordan & Gilbert* Pisces 15
Xystomima *Villeneuve* Ins. 226
Xystrologa *Meyrick* Ins. 199

Yabeina *Deprat* Prot. 21
Yseria *Gedoelst* Verm. 24

Zagryphus *Cushman* Ins. 163
Zahonya *Oye* Verm. 26
Zanetidites *Jordan & Gilbert* Pisces 16
Zavreliella *Kieffer* Ins. 211
Zeleja *Melichar* Ins. 254
Zimirina *de Dalmas* Arachn. 15
Zonitotrochus *Pilsbry* Moll. 47
Zonodorellus *Poppius* Ins. 251
Zonodoropsis *Poppius* Ins. 251
Zorcadium *Bergroth* Ins. 240
Zosterome[illegible] *Townsend* Ins. 231